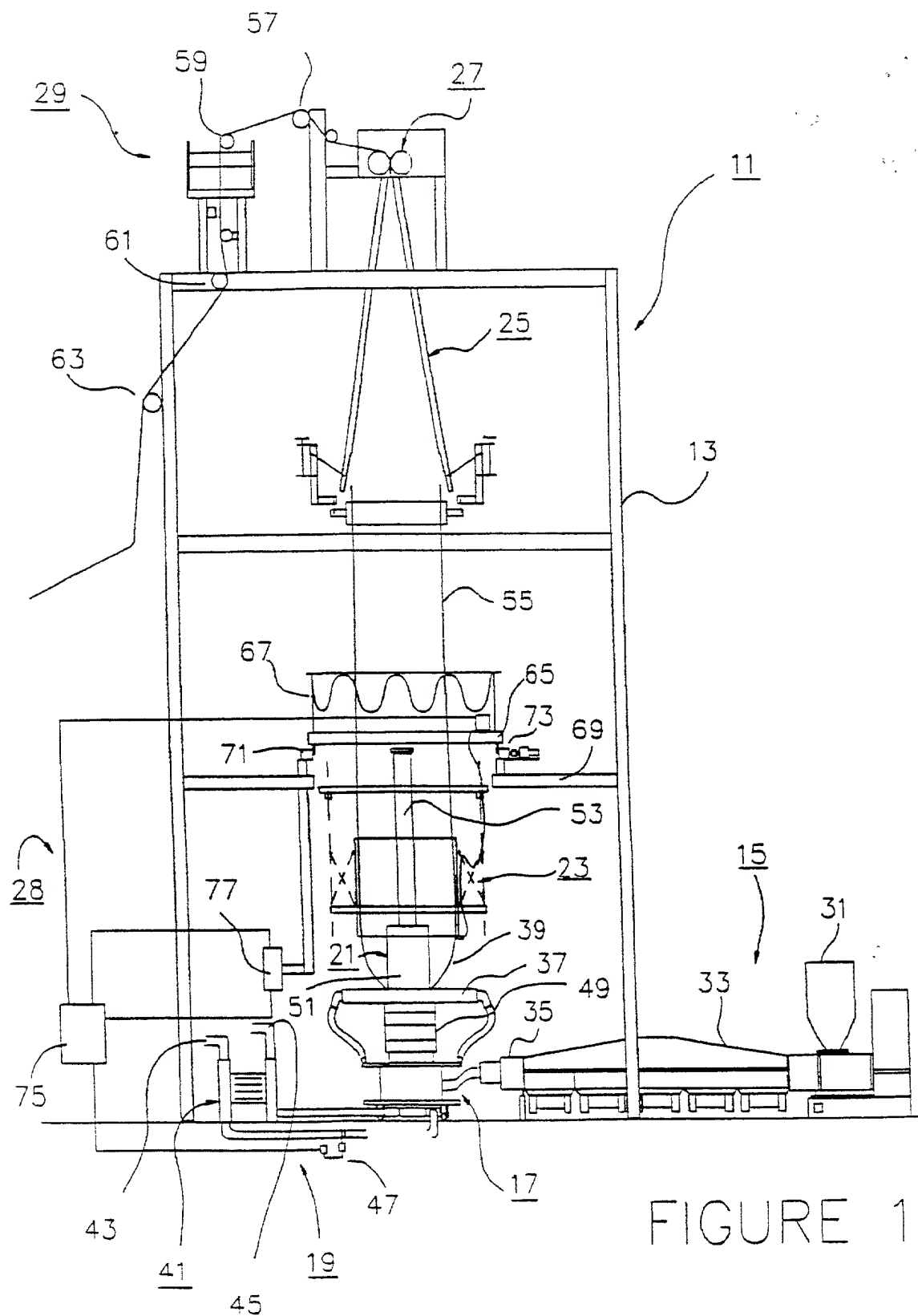


THE UNIVERSITY OF CHICAGO



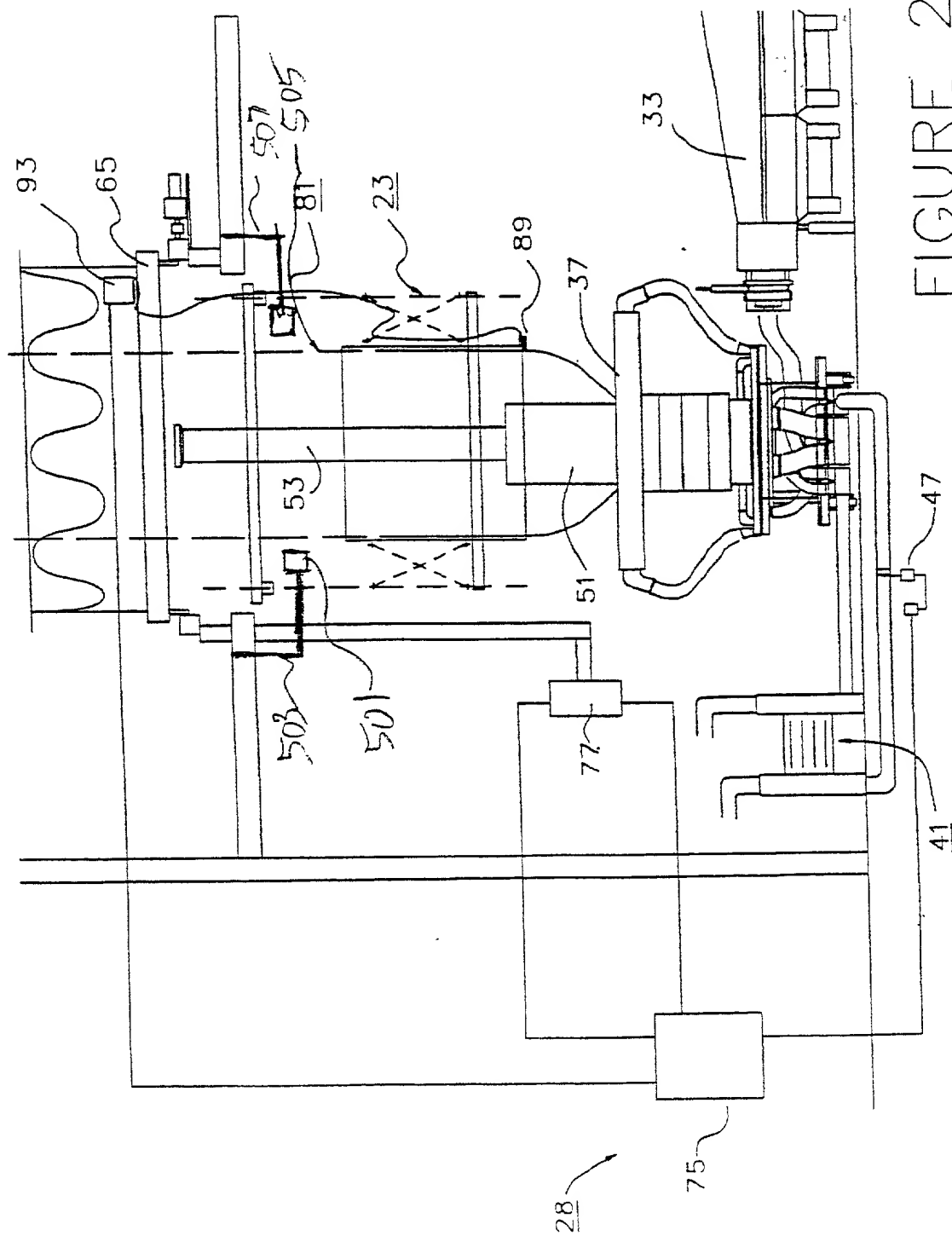


FIGURE 2

09829084.001501

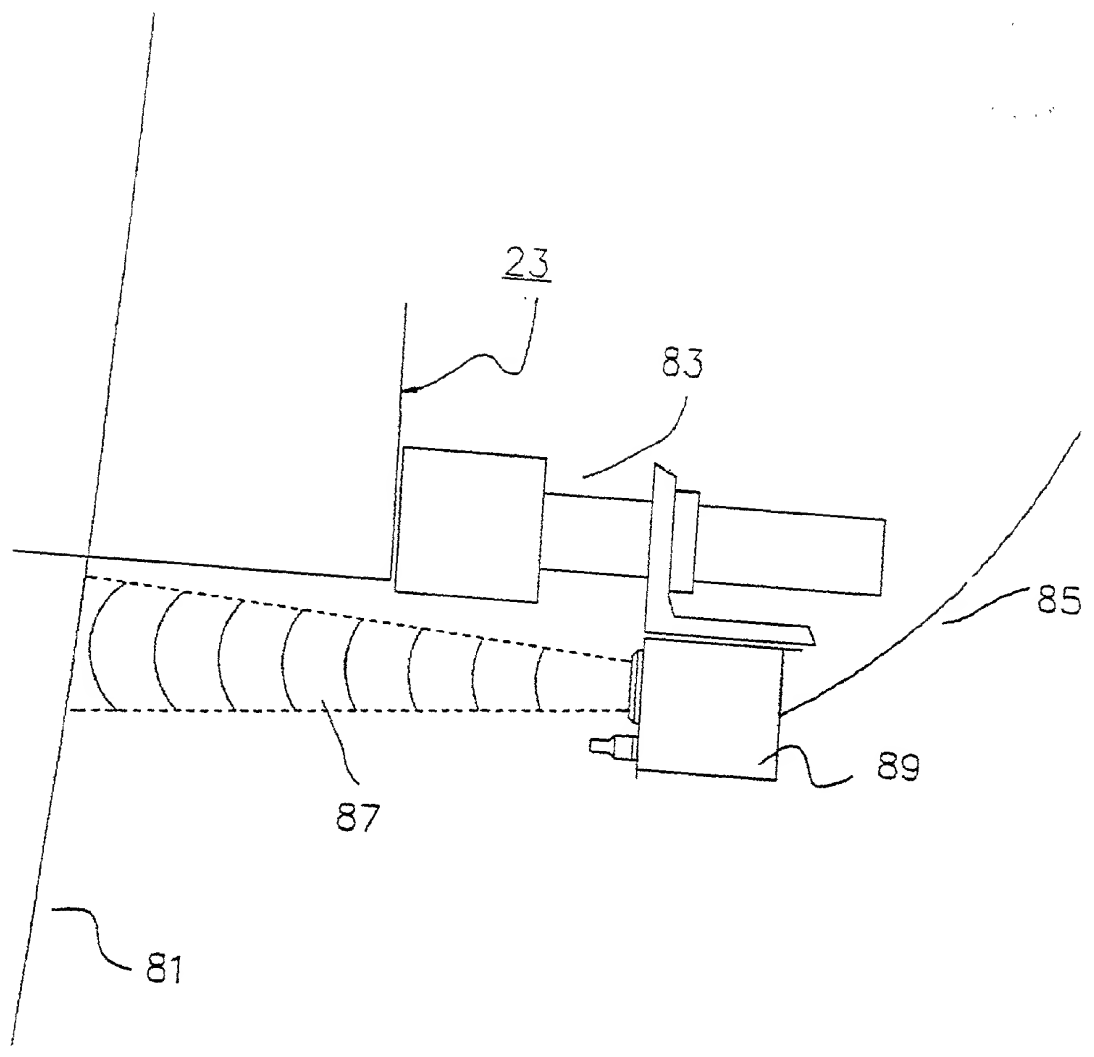


FIGURE 3

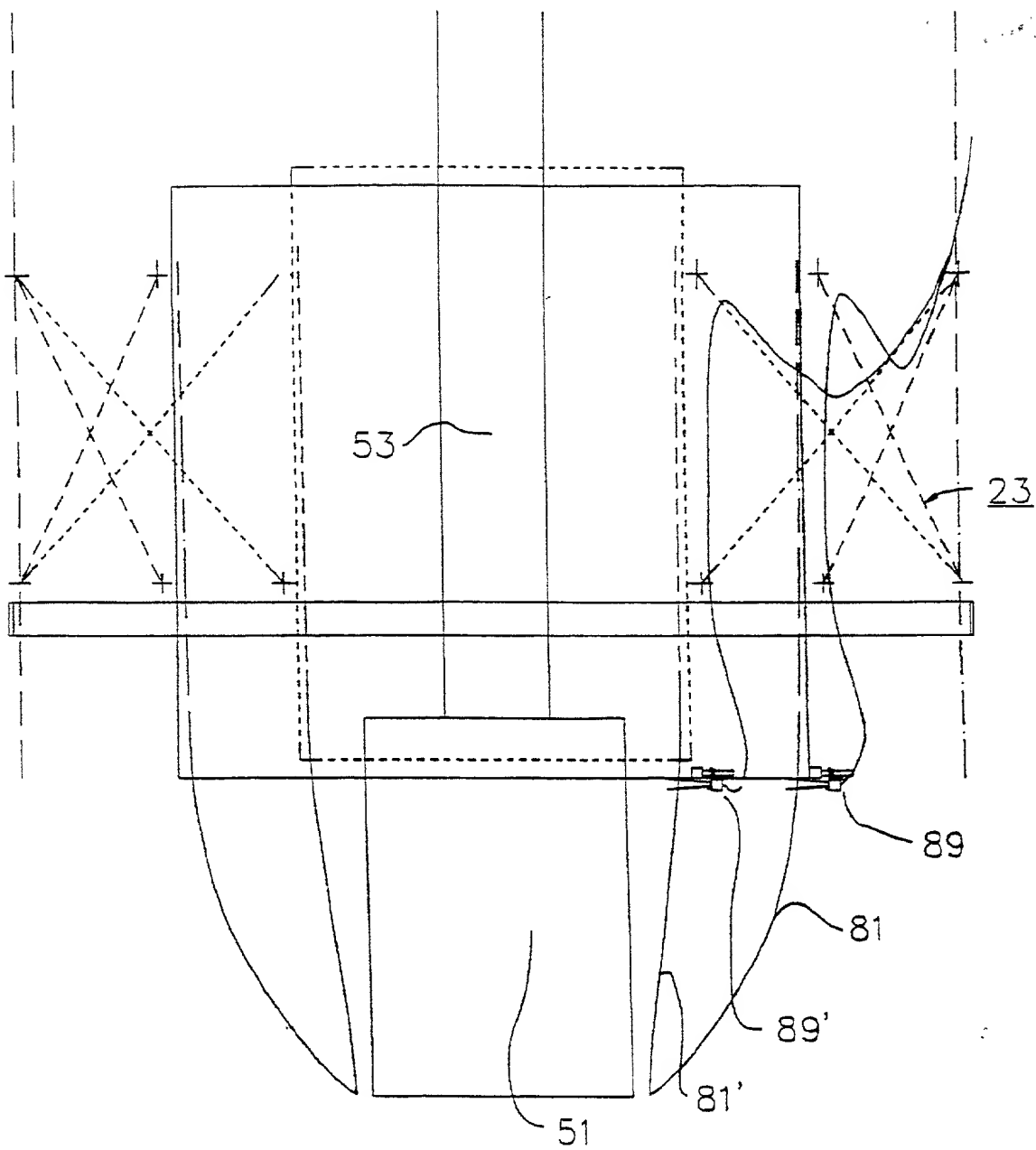


FIGURE 4

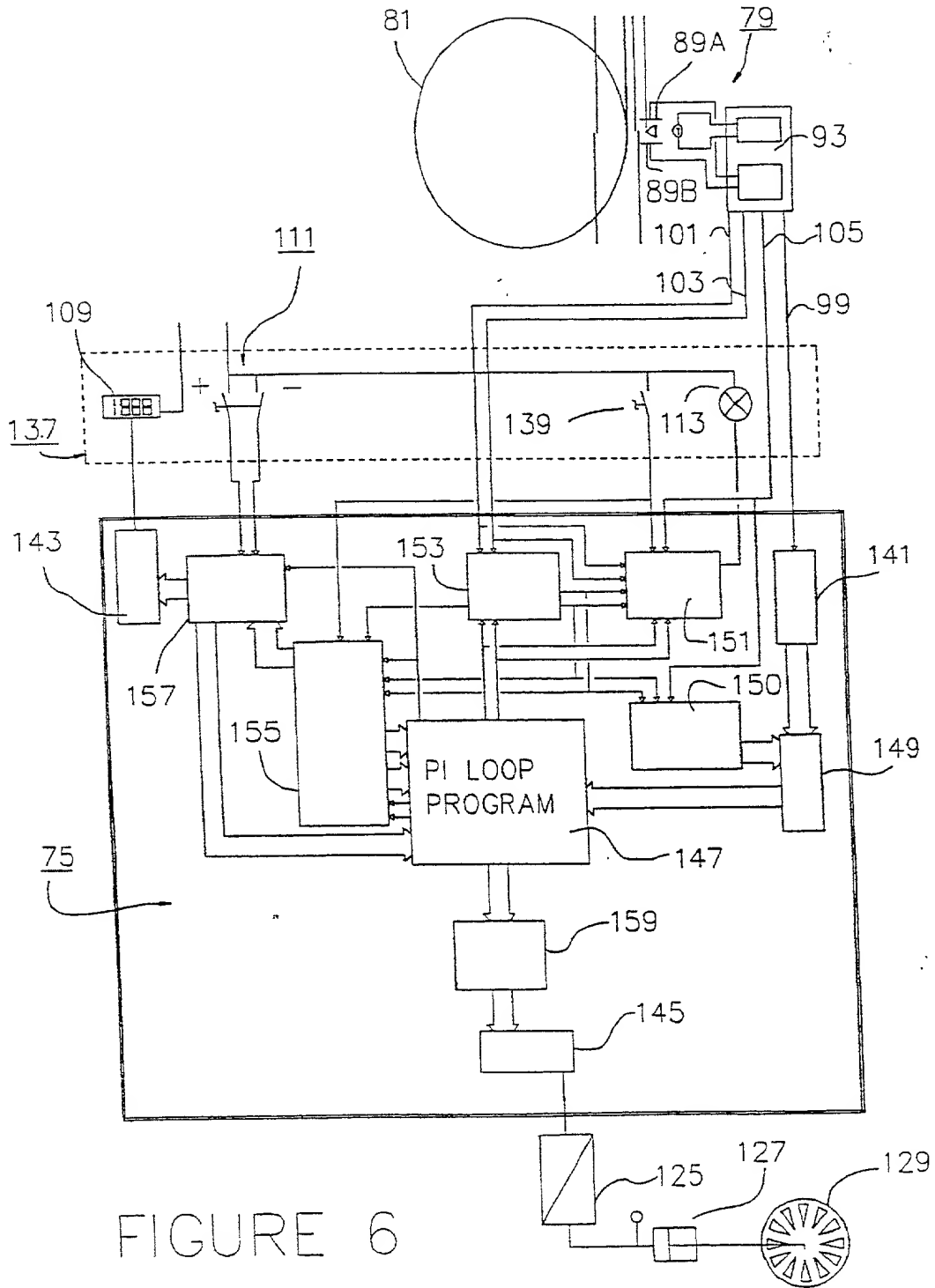


FIGURE 6

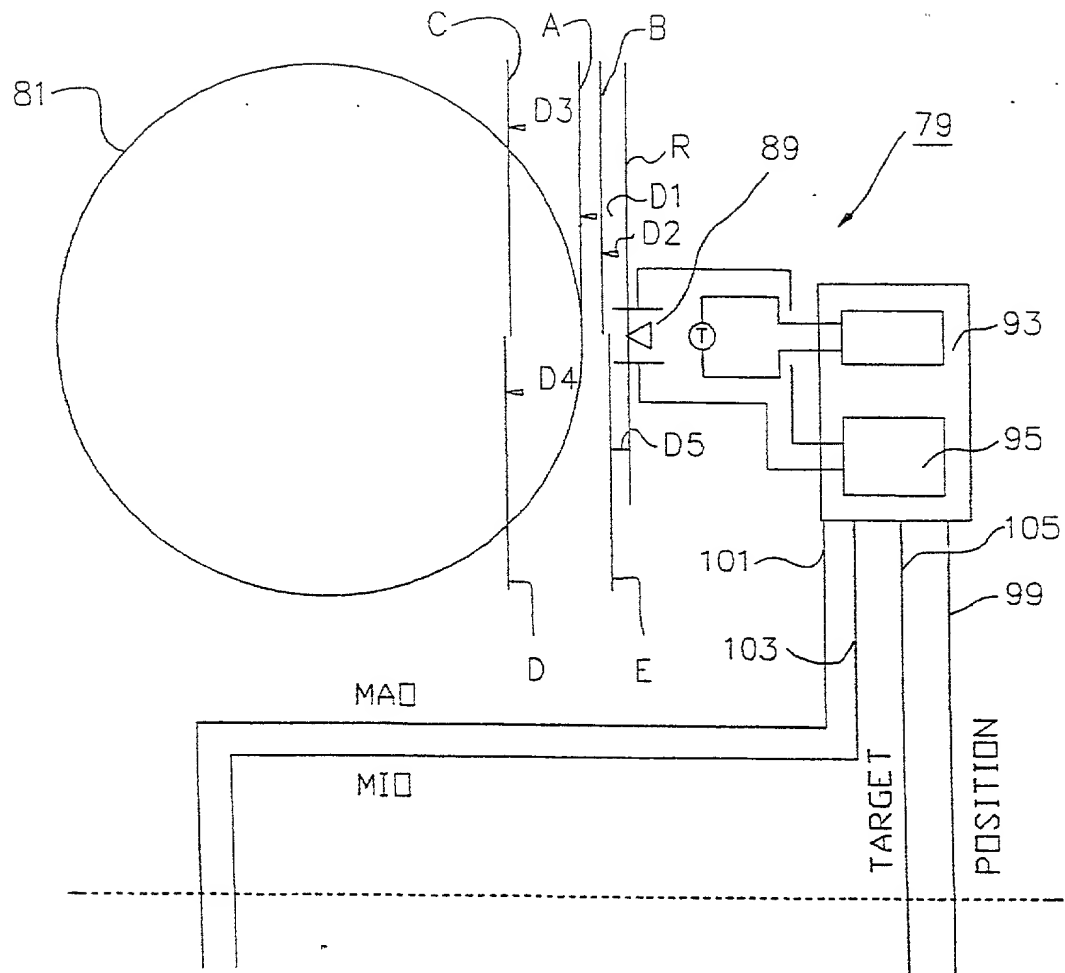


FIGURE 7A

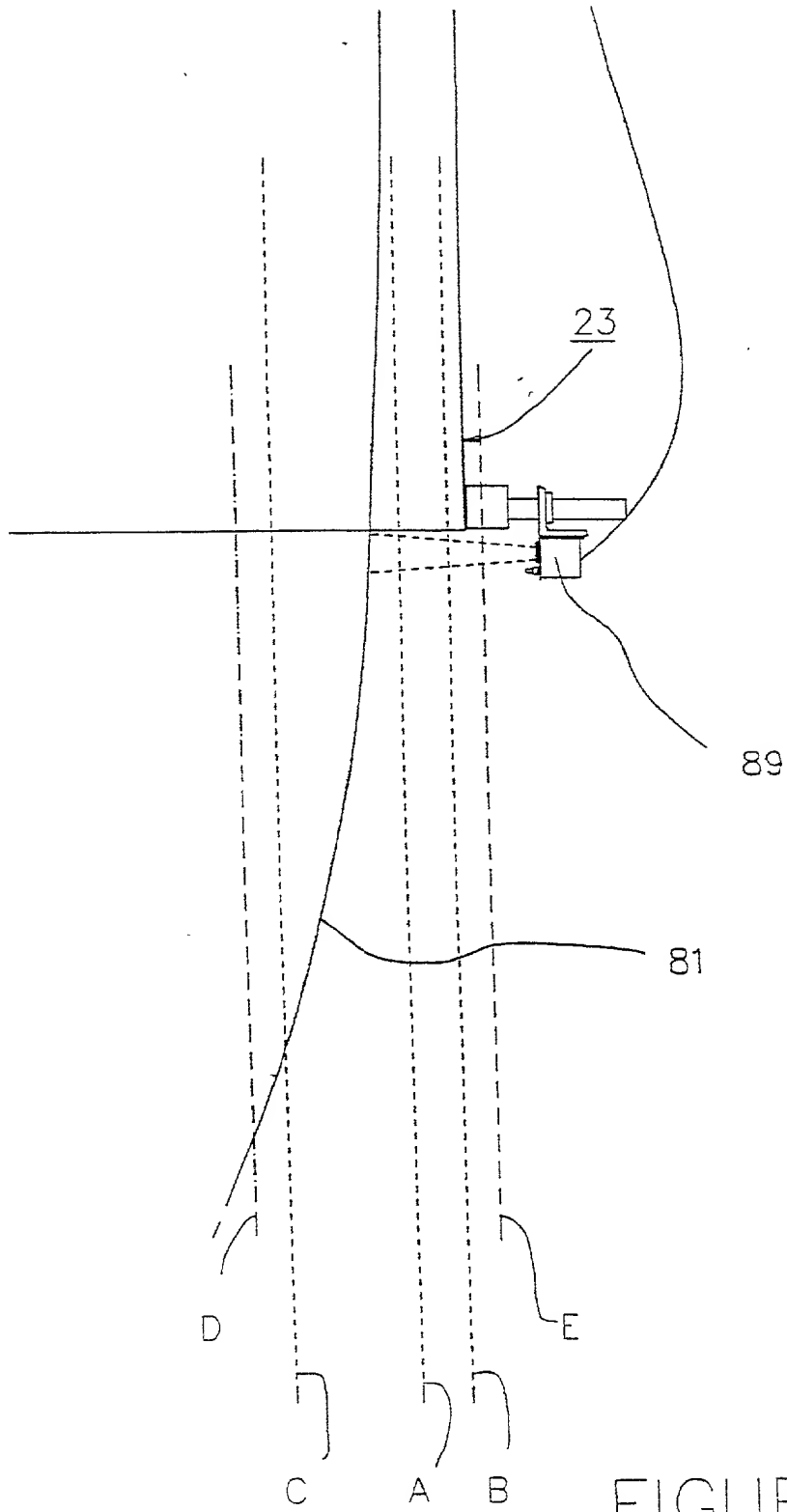
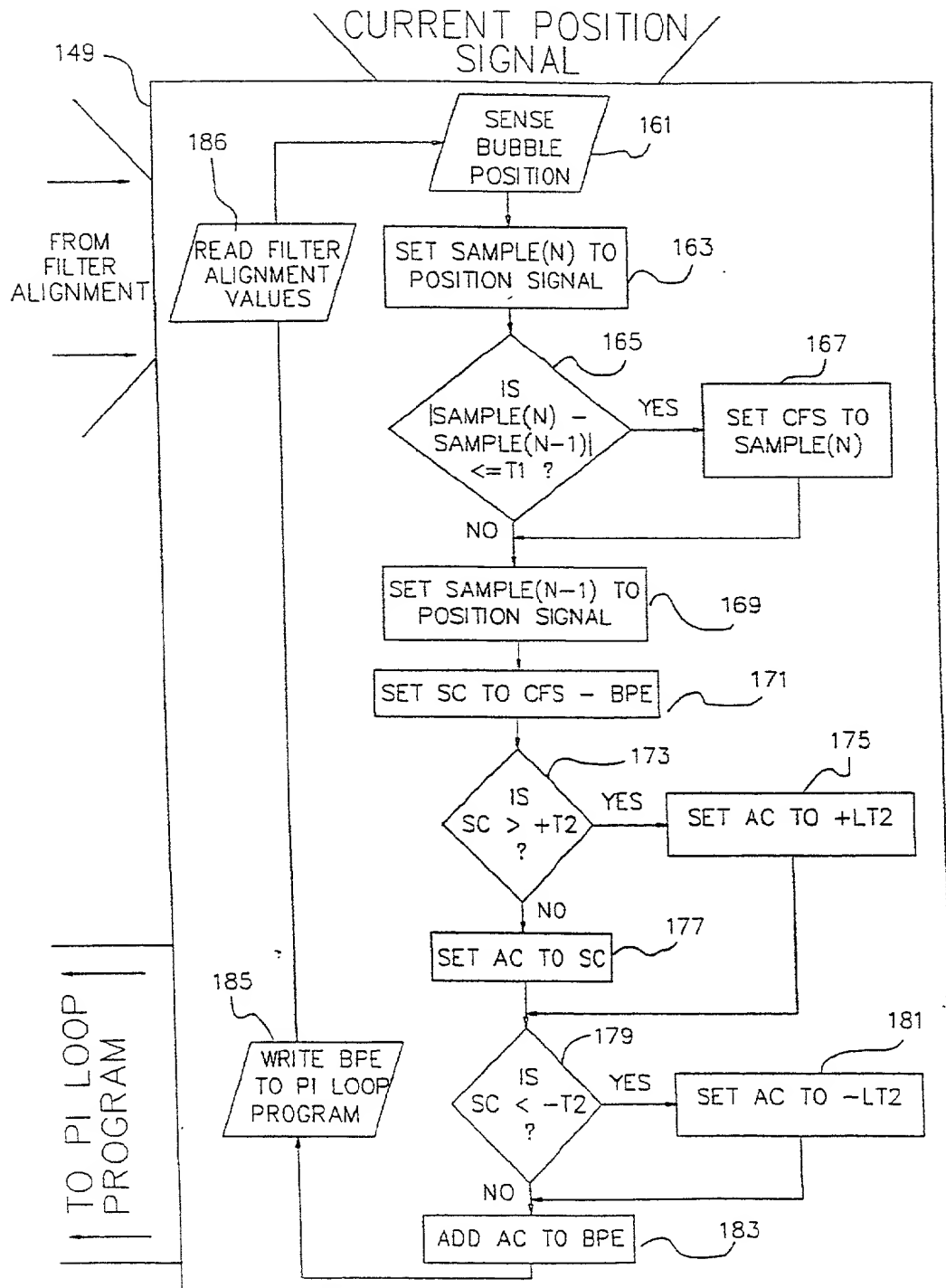


FIGURE 7B



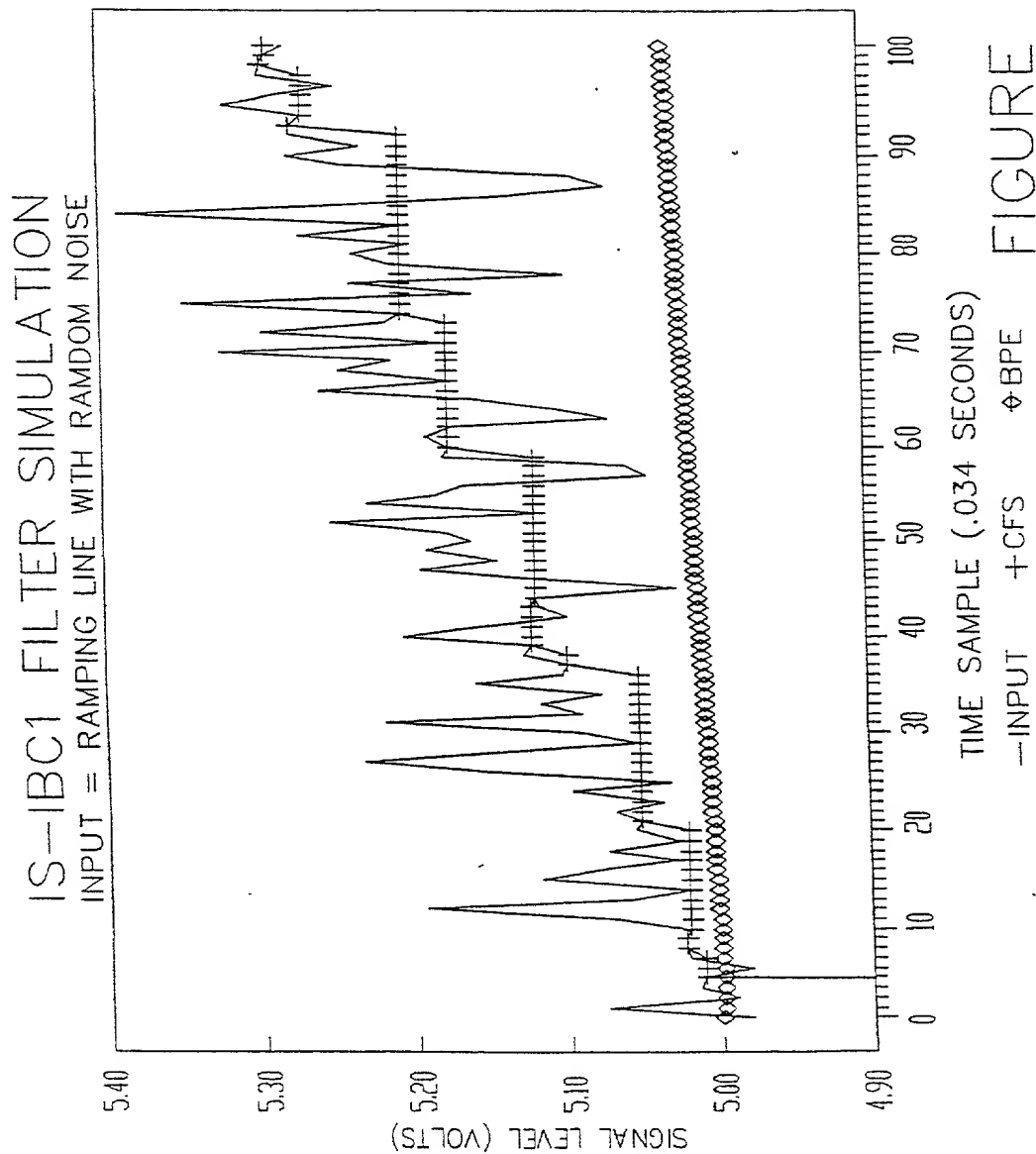


FIGURE 8B

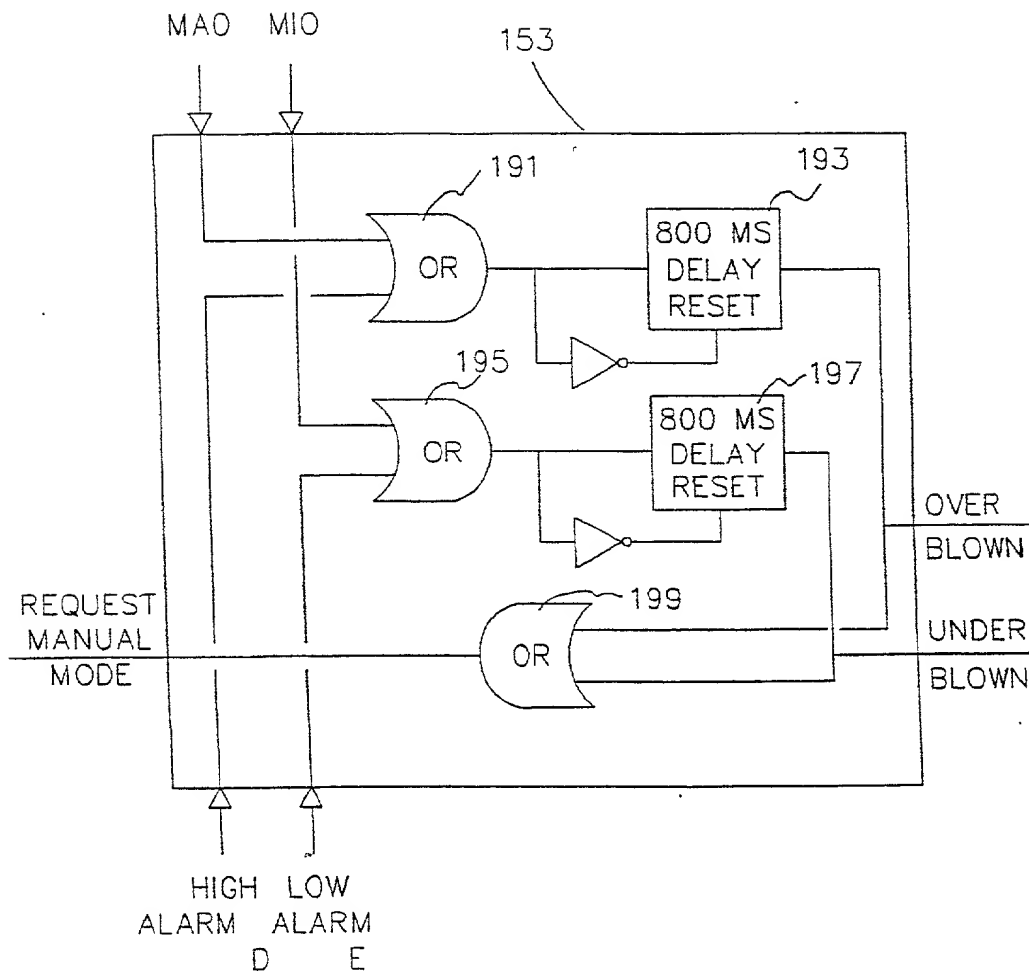


FIGURE 9

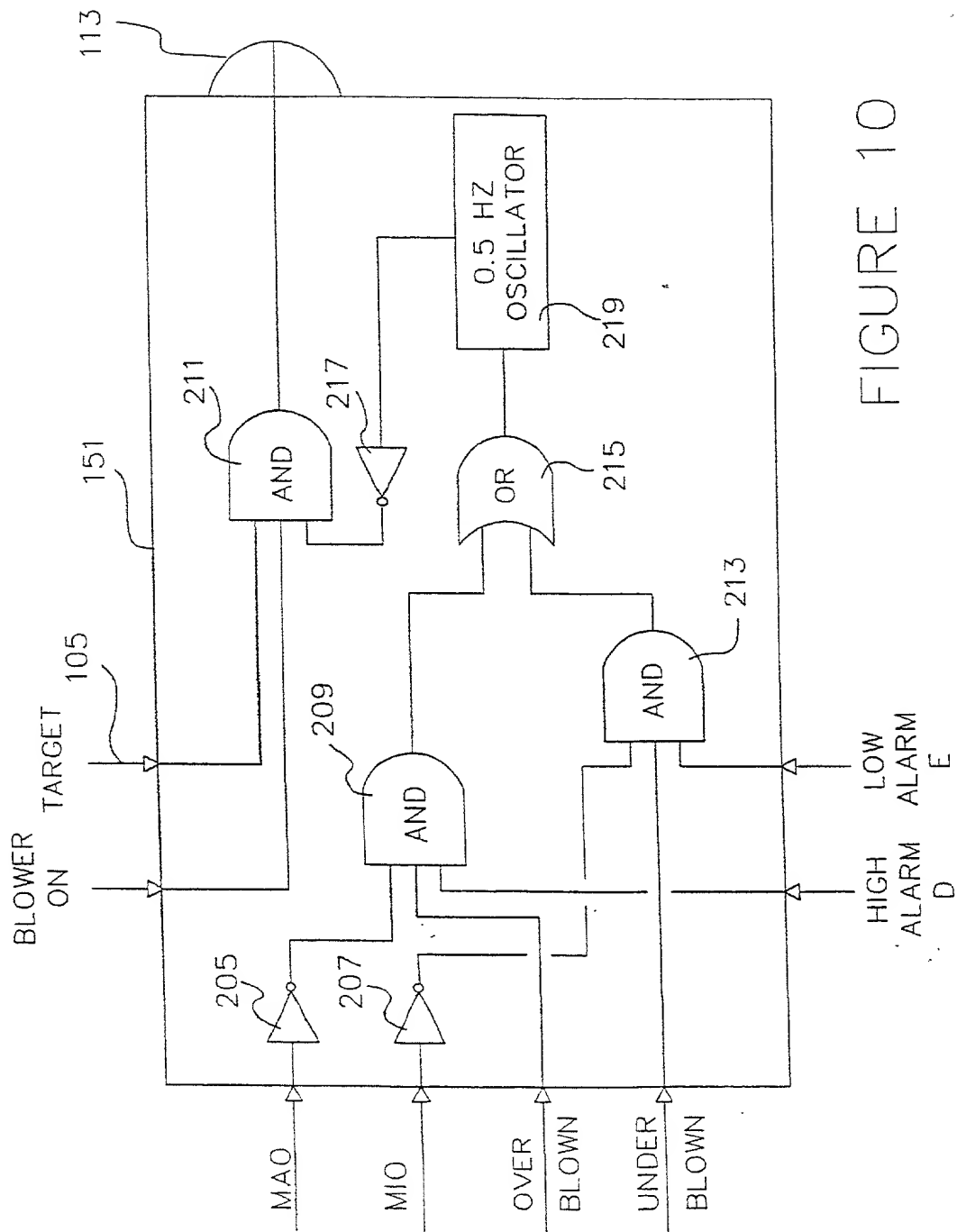


FIGURE 10

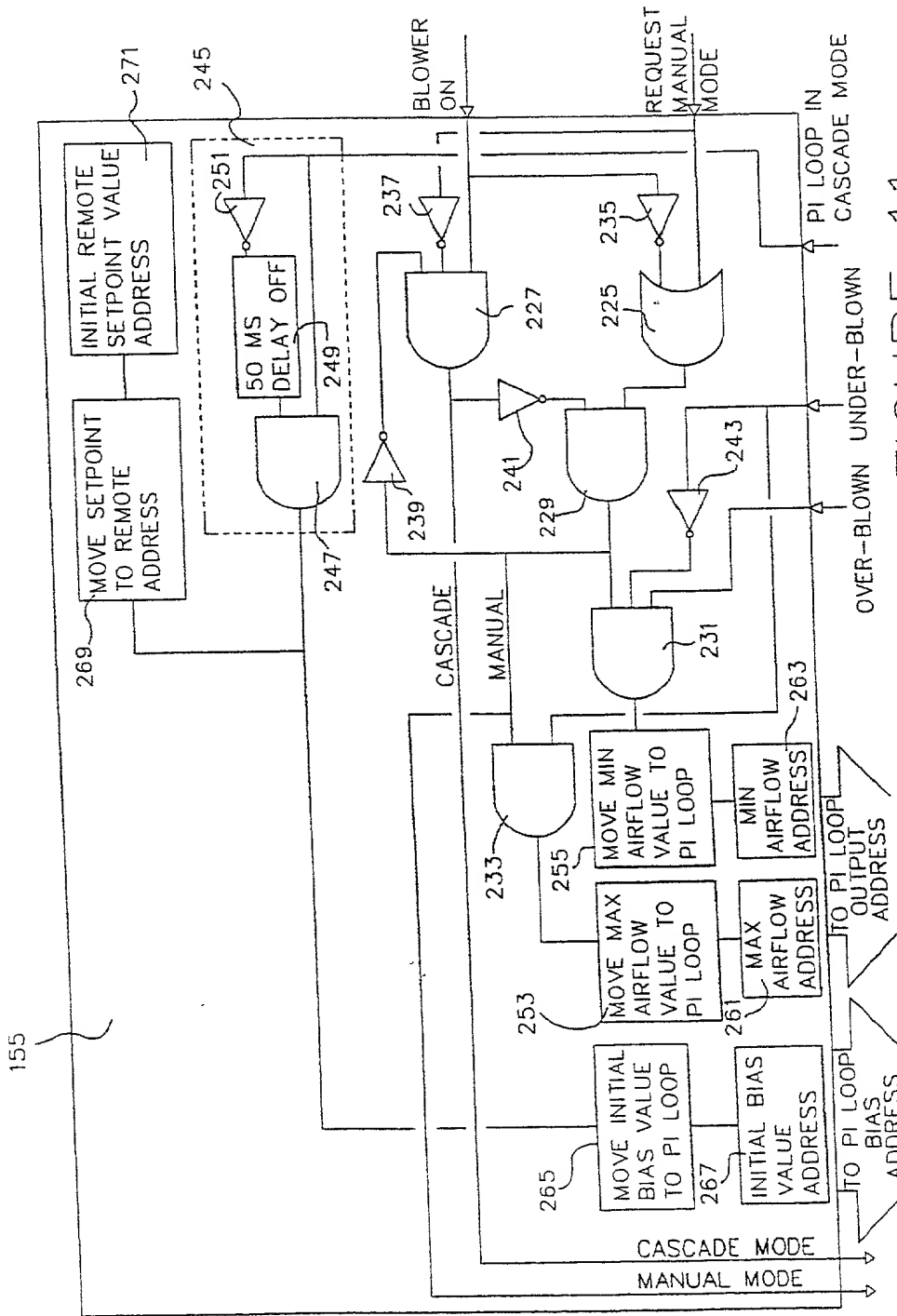


FIGURE 11

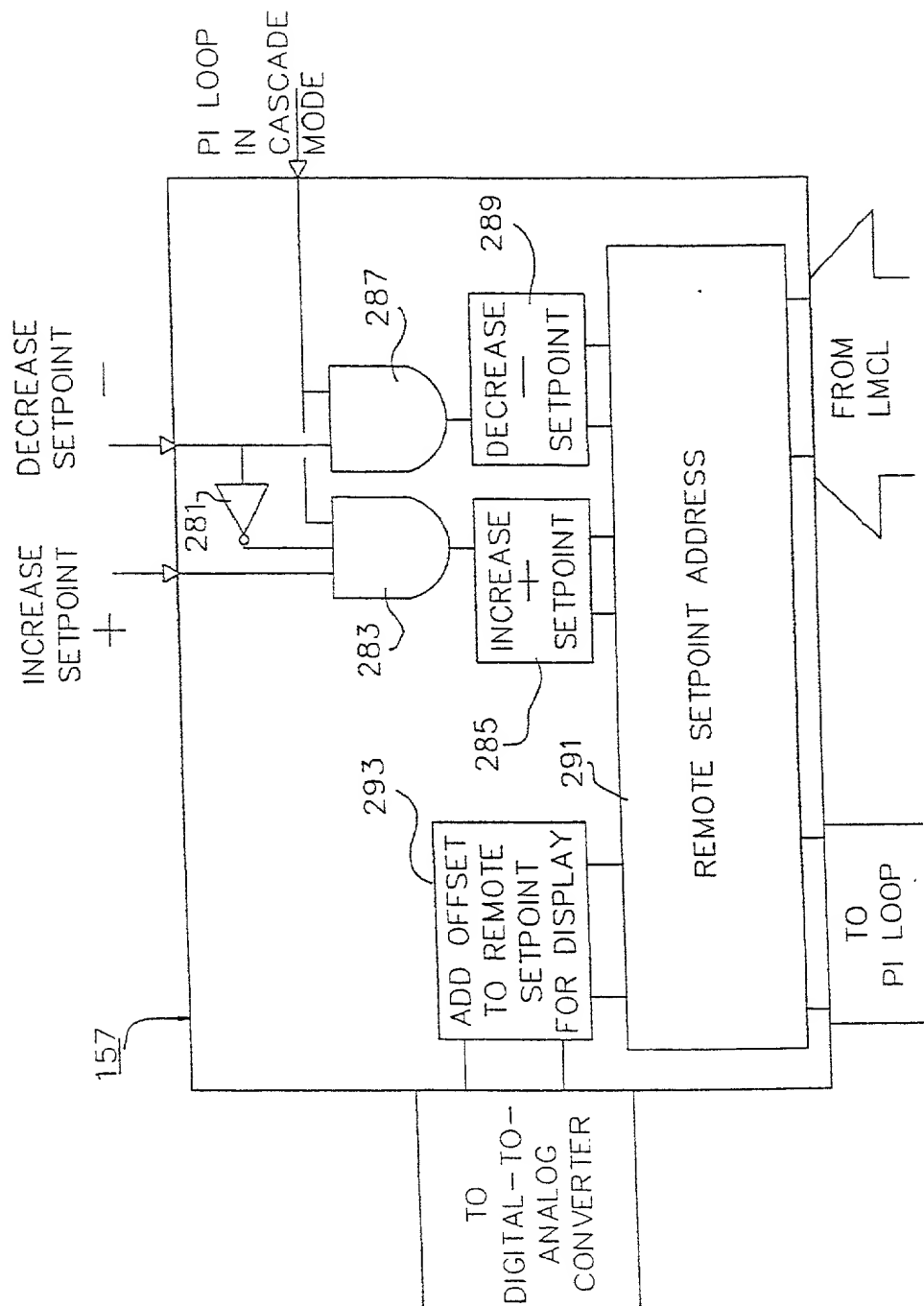


FIGURE 12

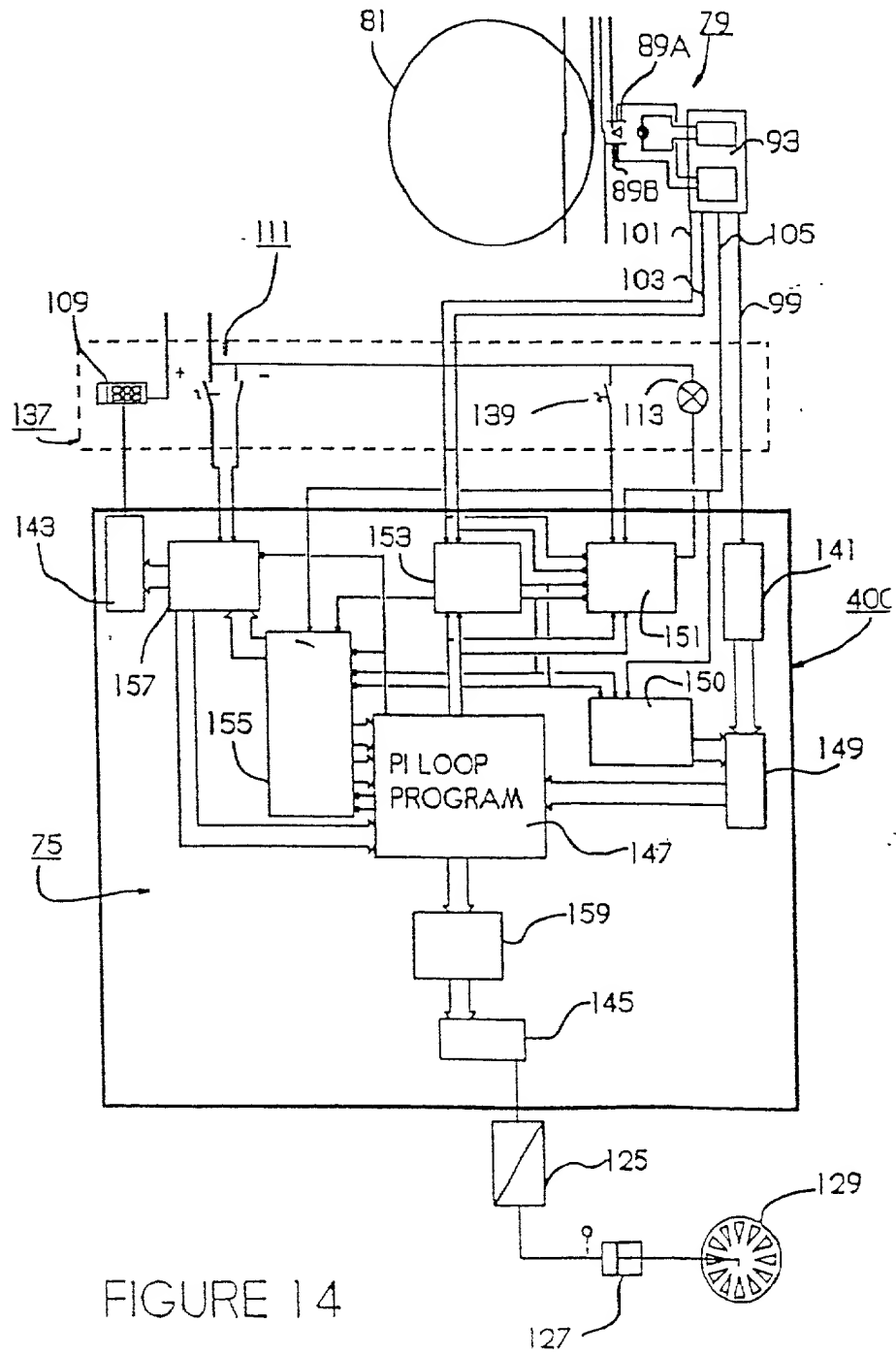


FIGURE 14

[illegible]

FIGURE 15

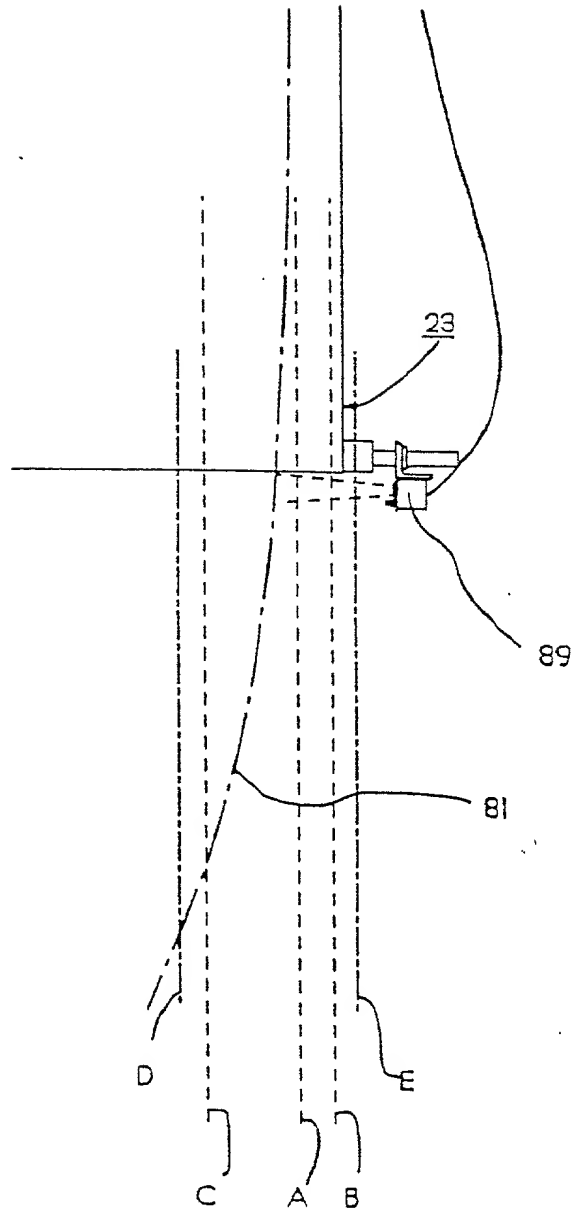


FIGURE 16

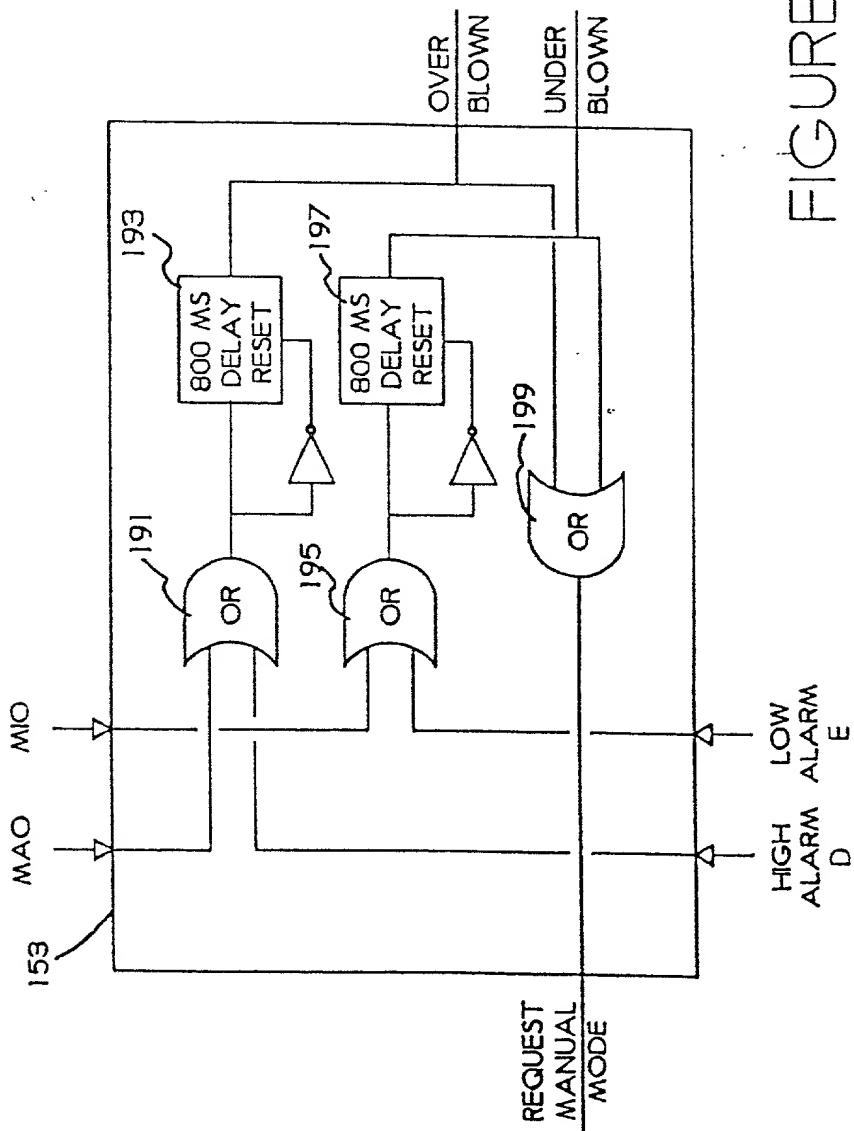


FIGURE 17

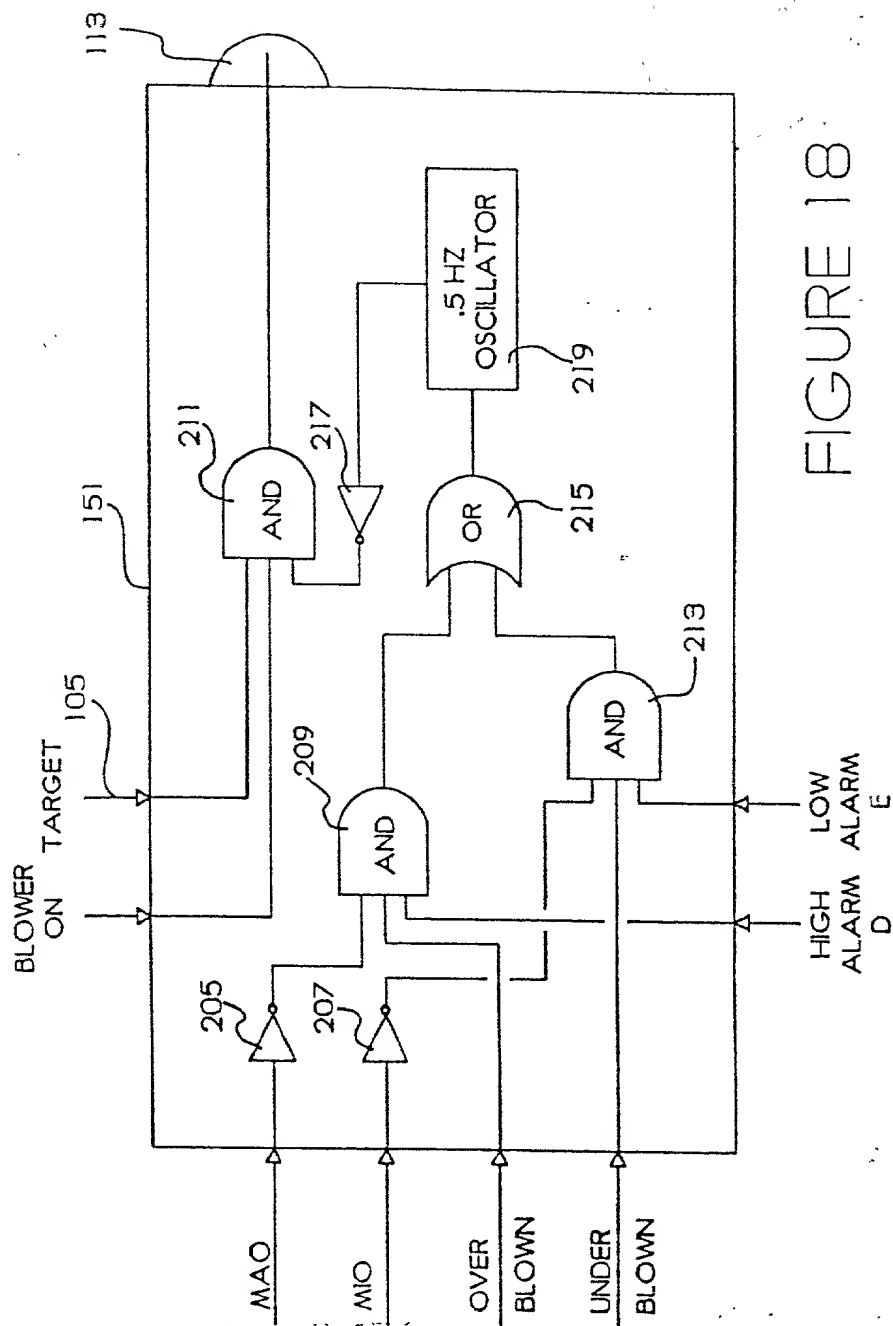
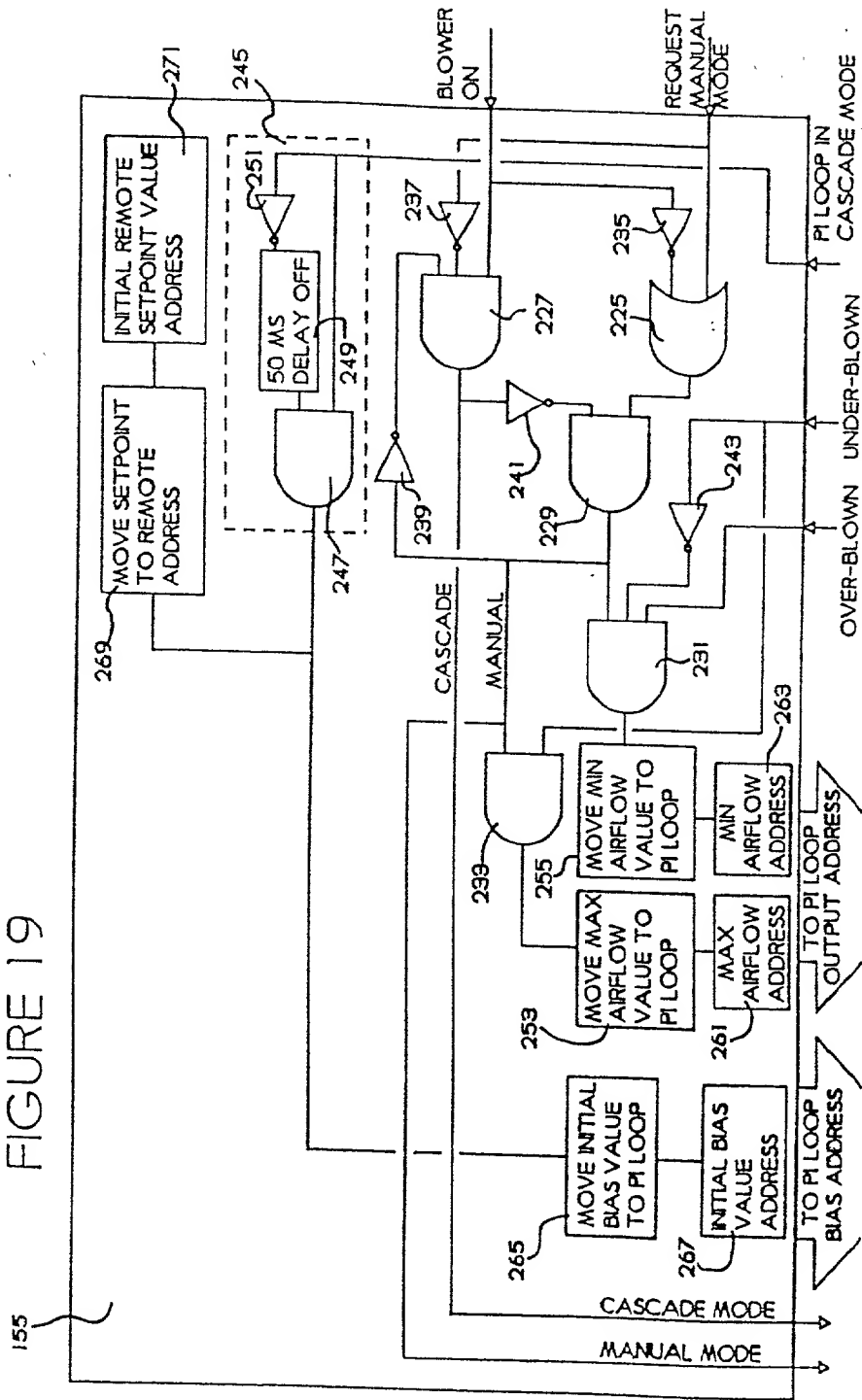


FIGURE 18

FIGURE 19



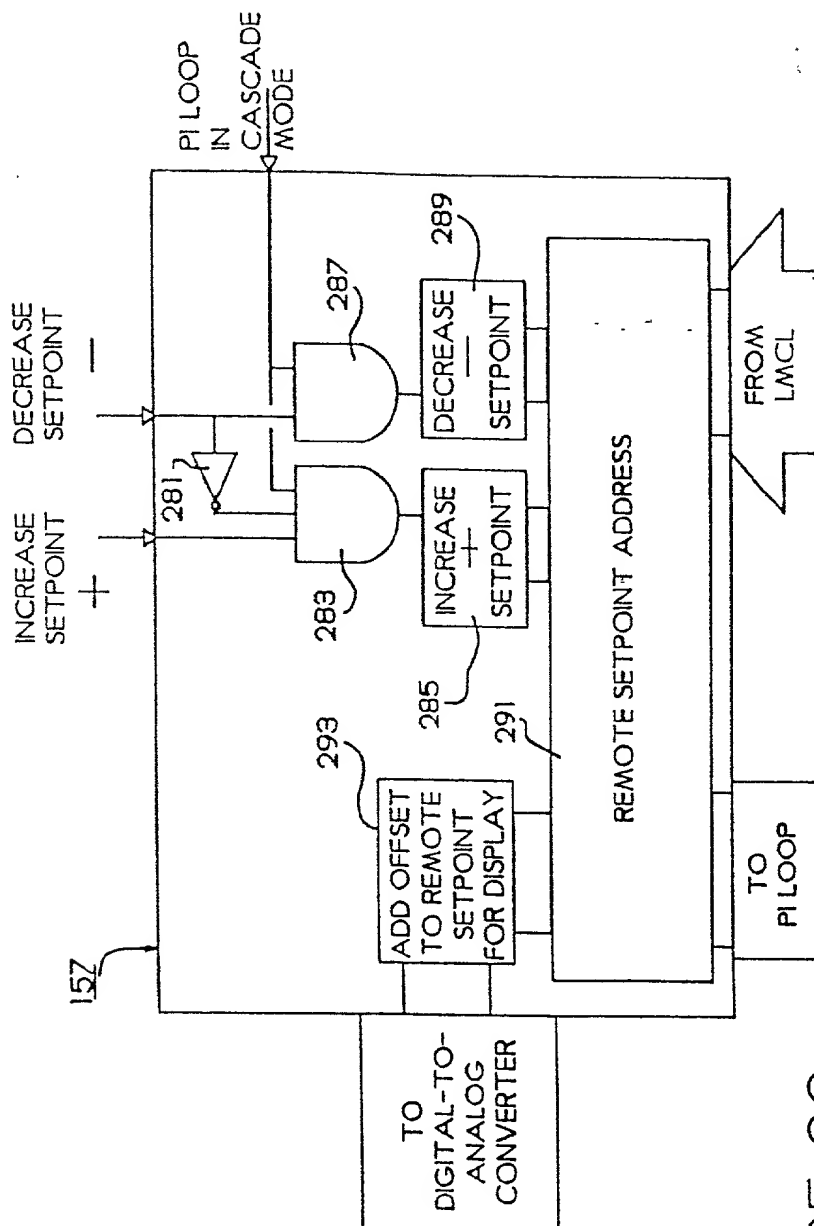


FIGURE 20

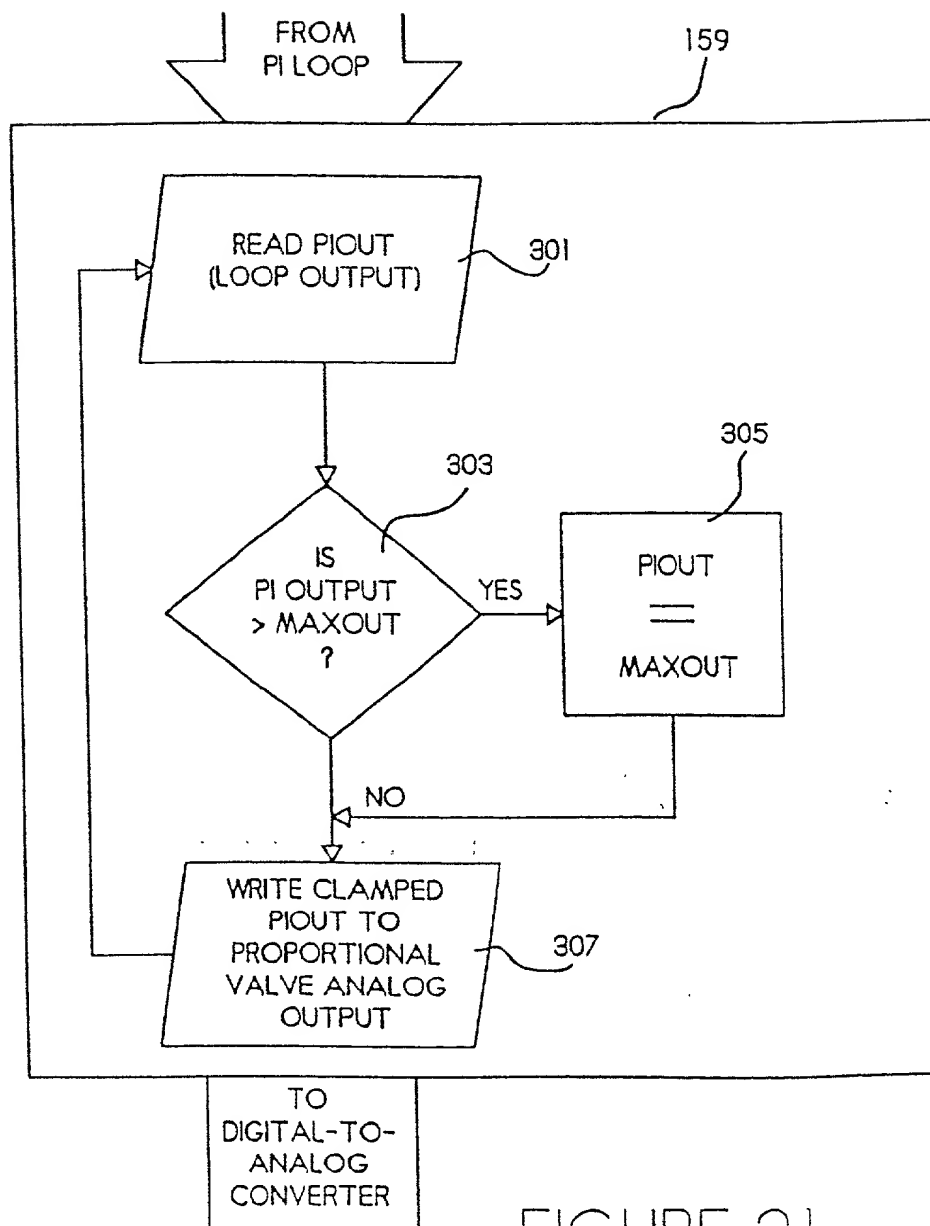
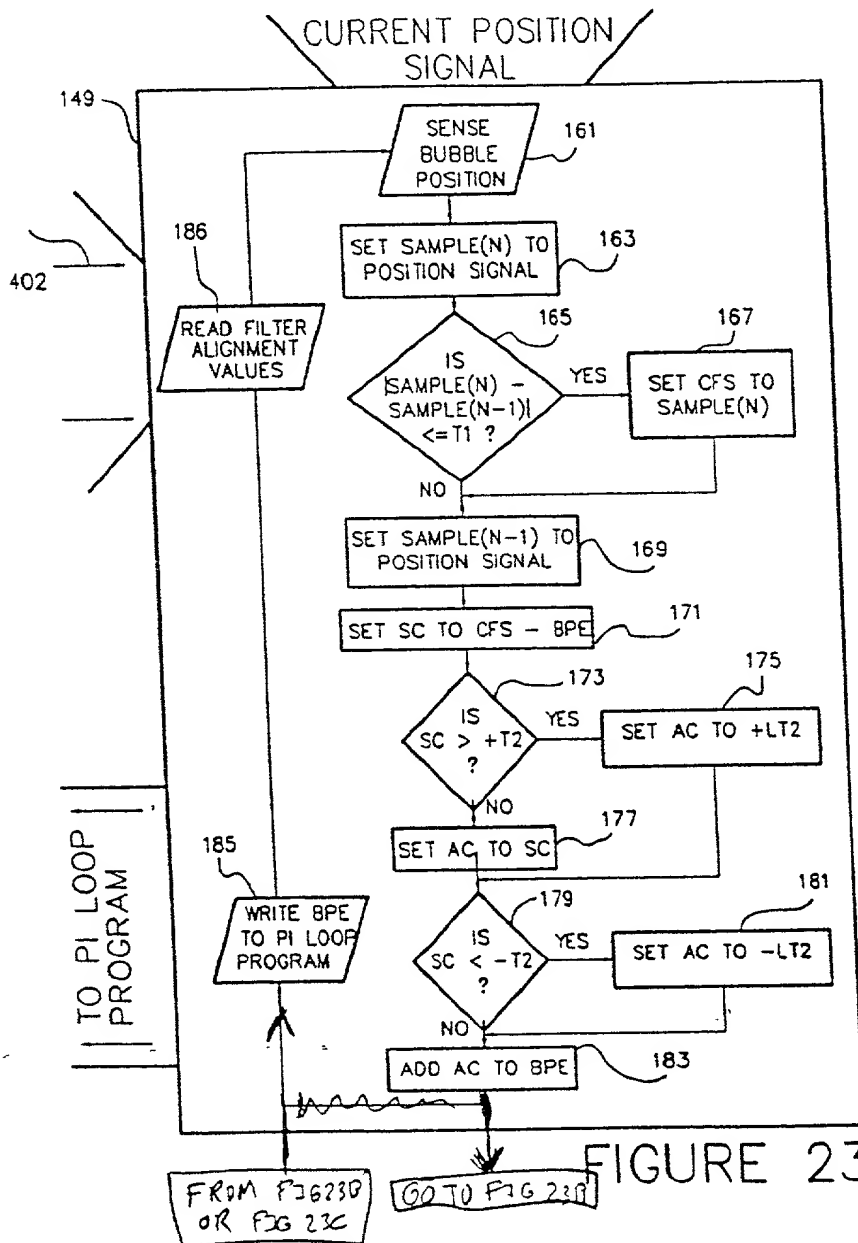


FIGURE 21



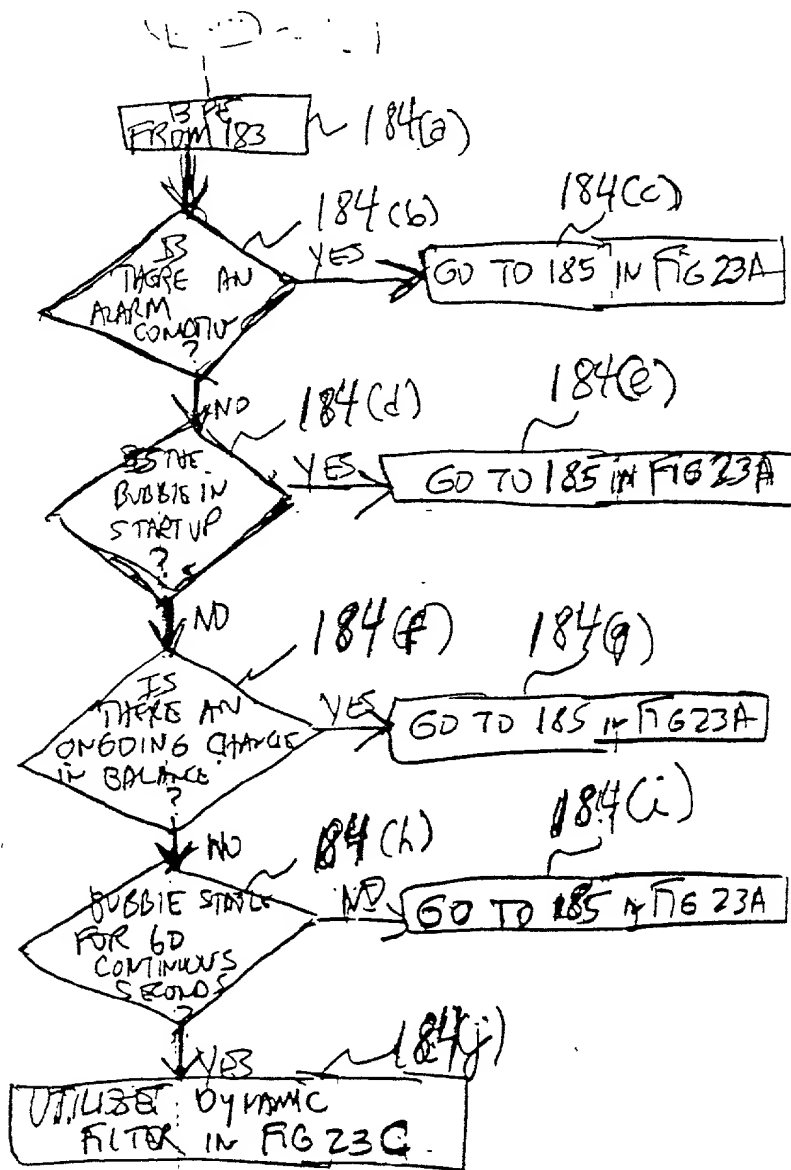


FIGURE 23B

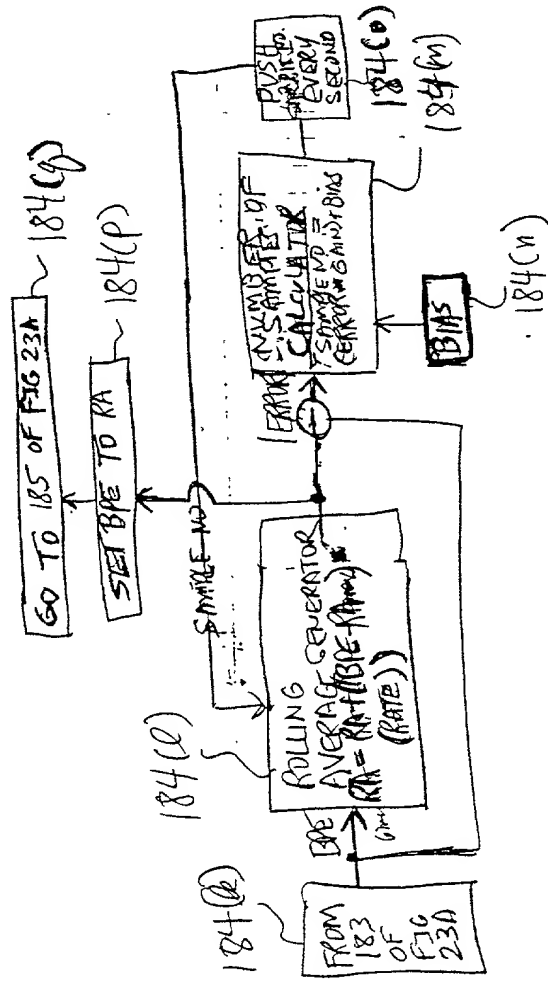


FIG 23A

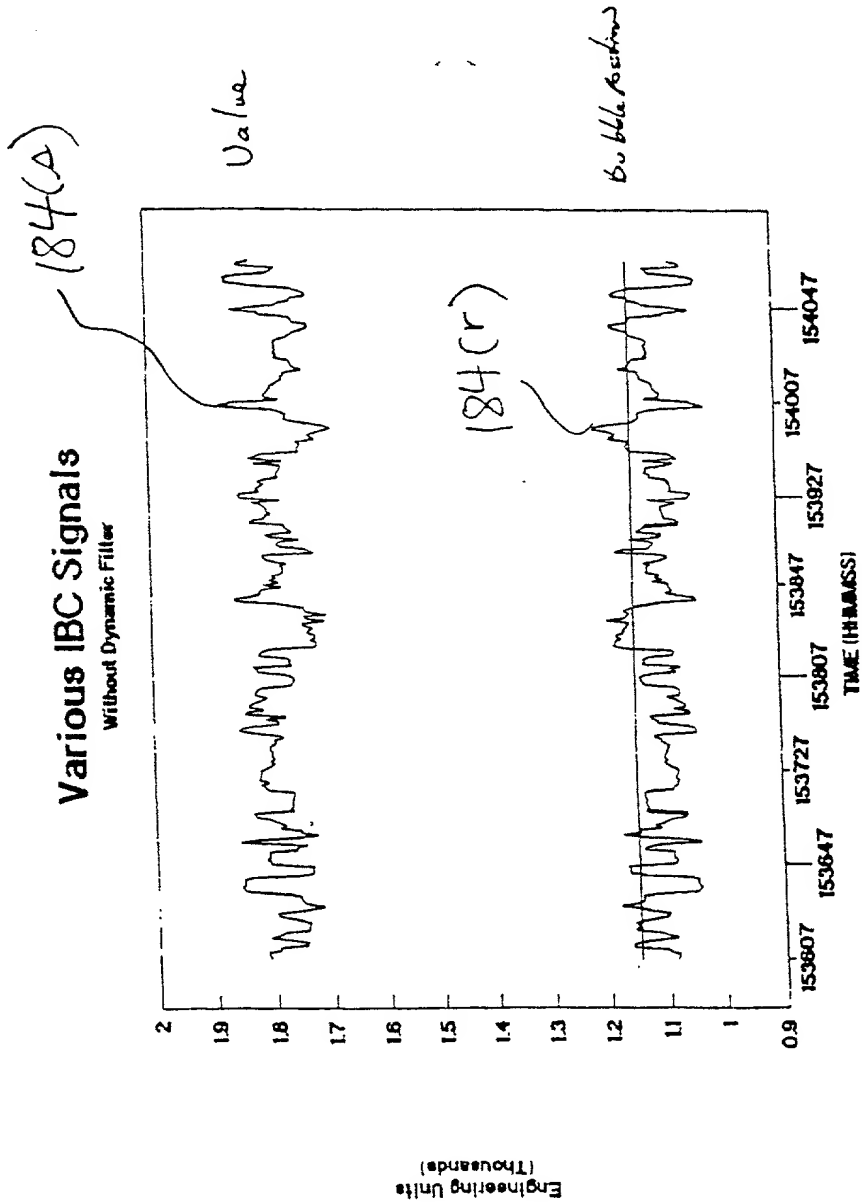


Figure 23 D

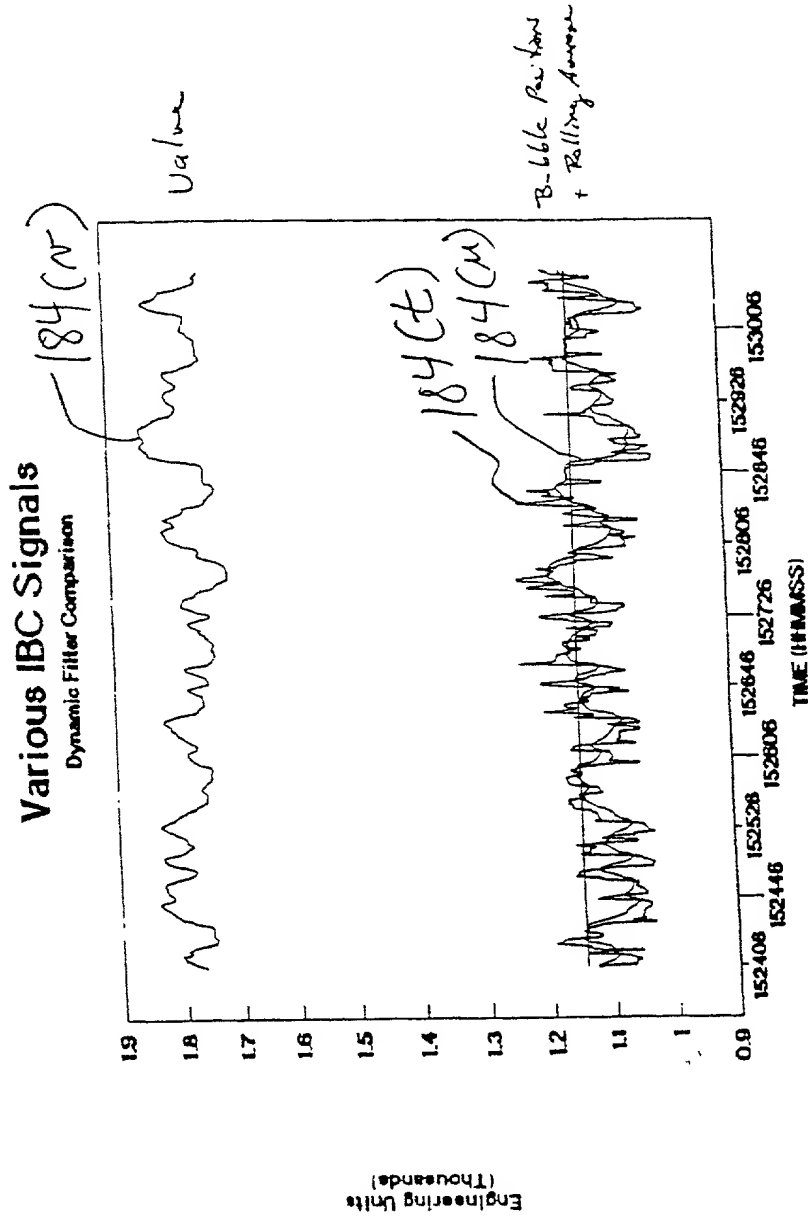


Figure 23E

109180"42062860

Frequency Distribution Comparison

Dynamic Filter Vs. BPE

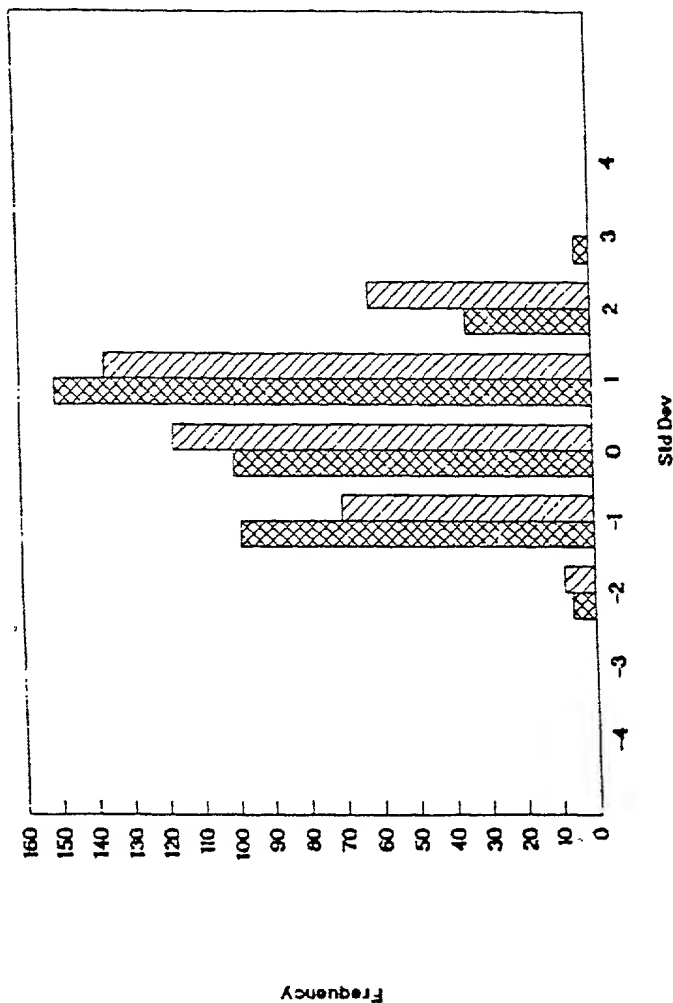


FIGURE 23F

Various IBC Signals Start-Up With Dynamic Filter

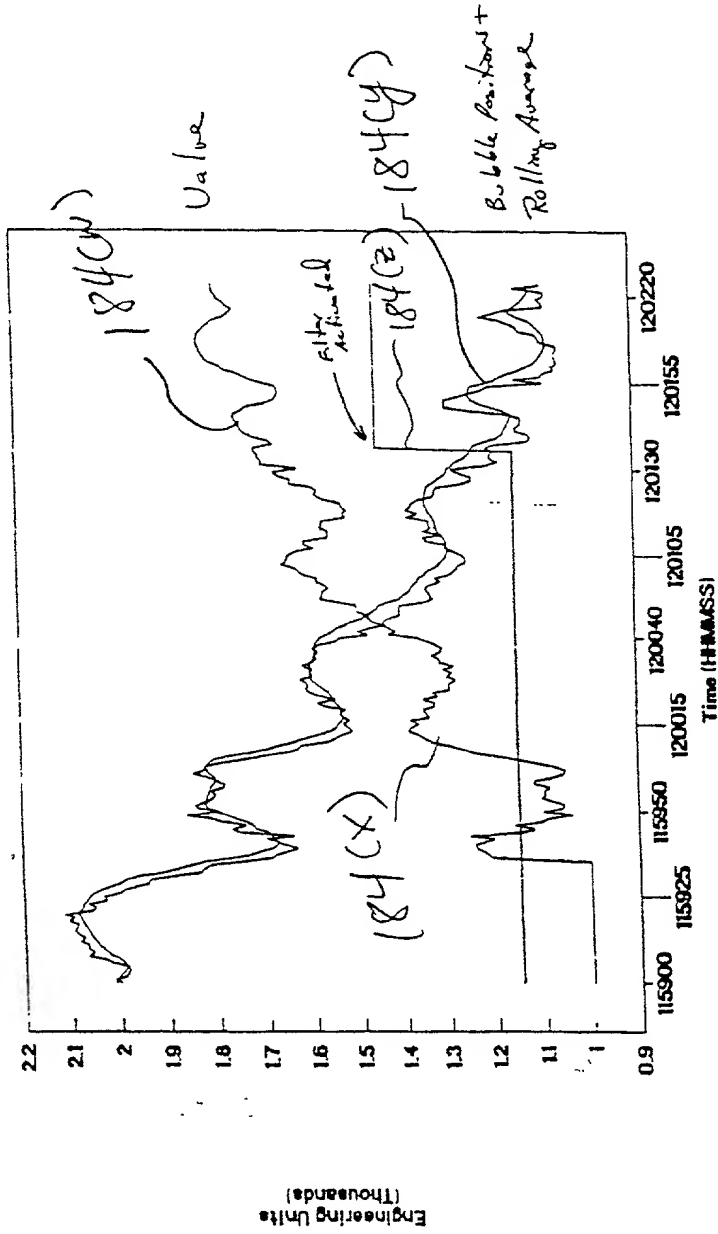


FIG 23G

IS-IBC1 FILTER SIMULATION

INPUT = RAMPING LINE WITH RANDOM NOISE

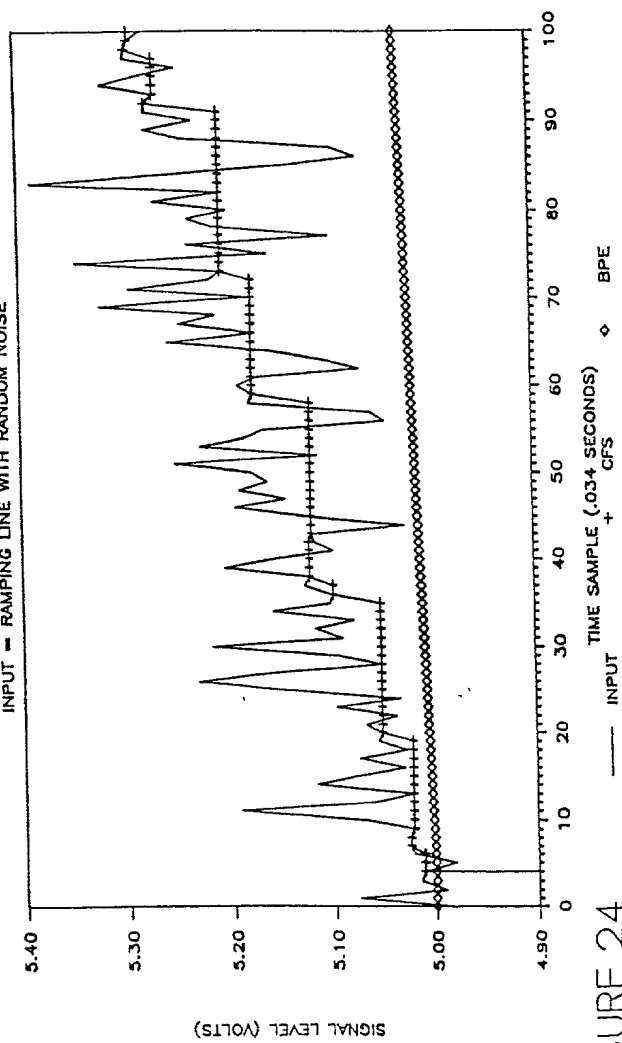


FIGURE 24

FIGURE 25A

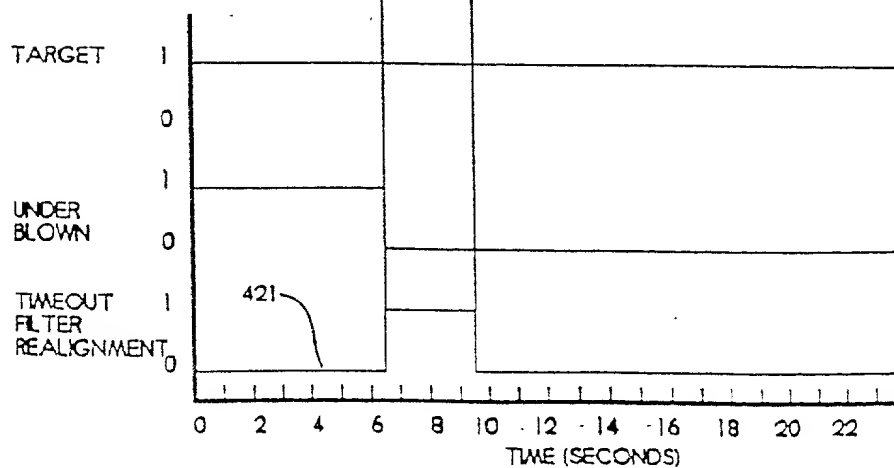
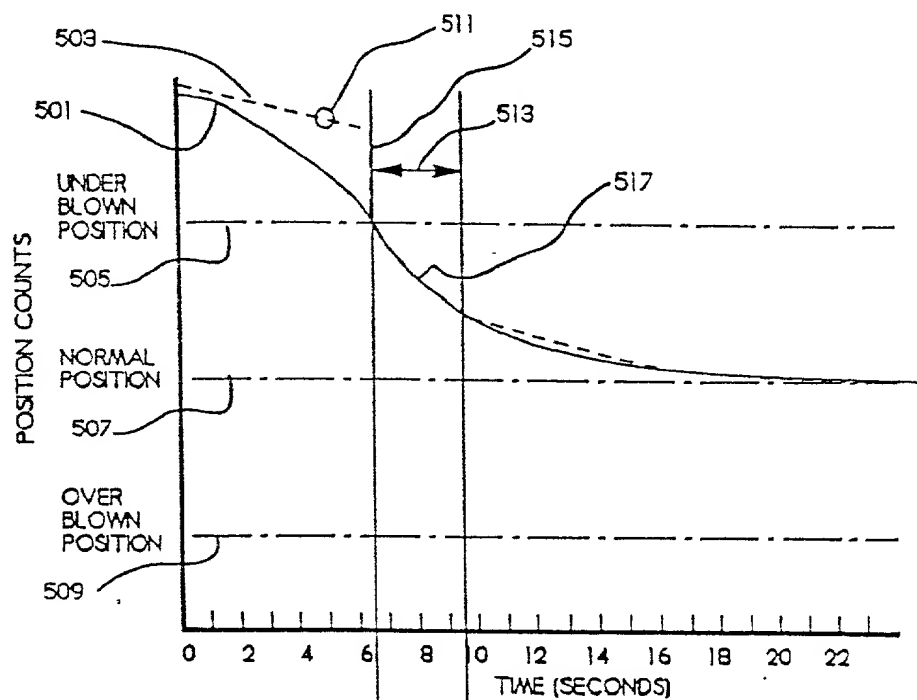


FIGURE 25B

FIGURE 26A

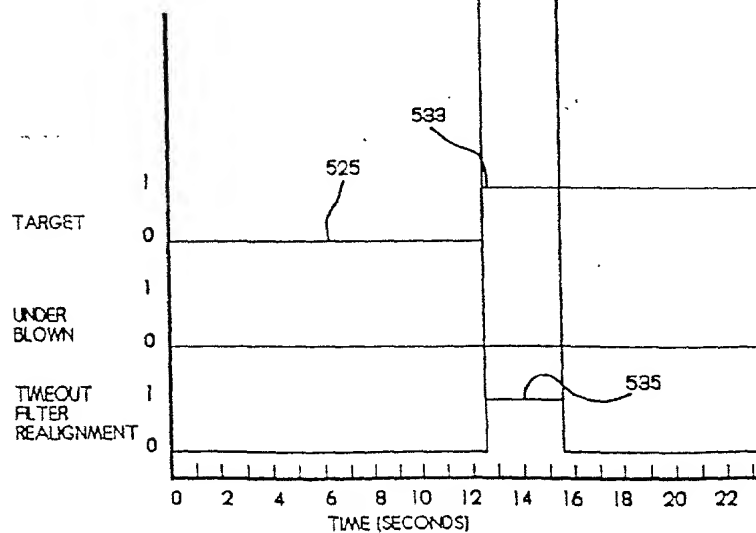
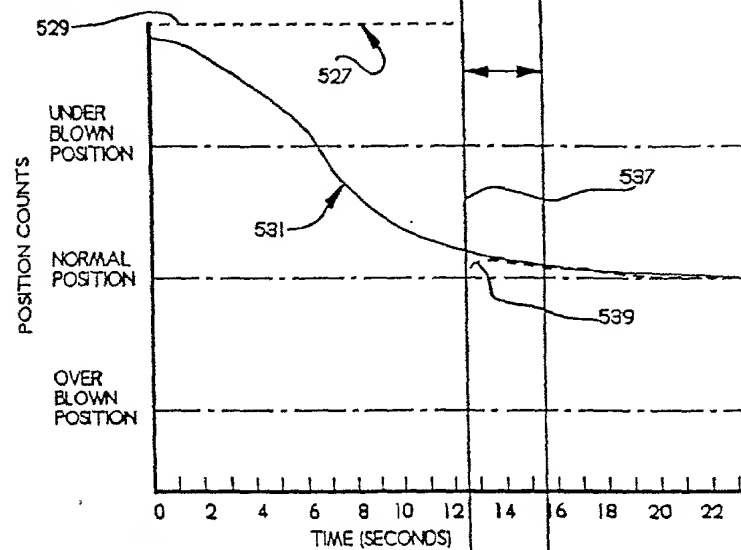


FIGURE 26B

FIGURE 27A

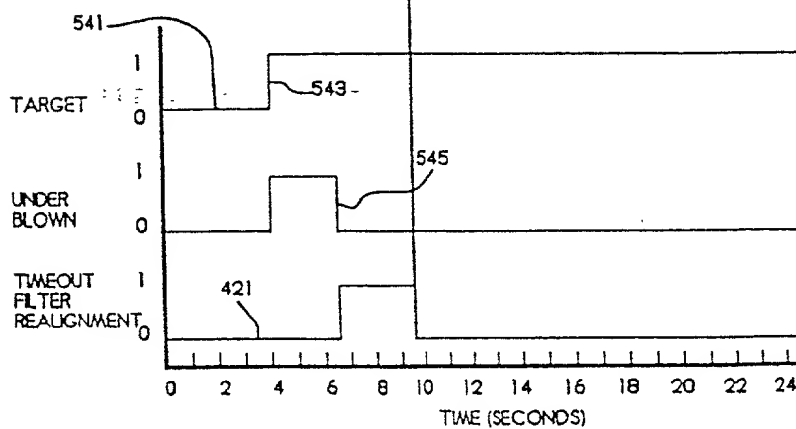
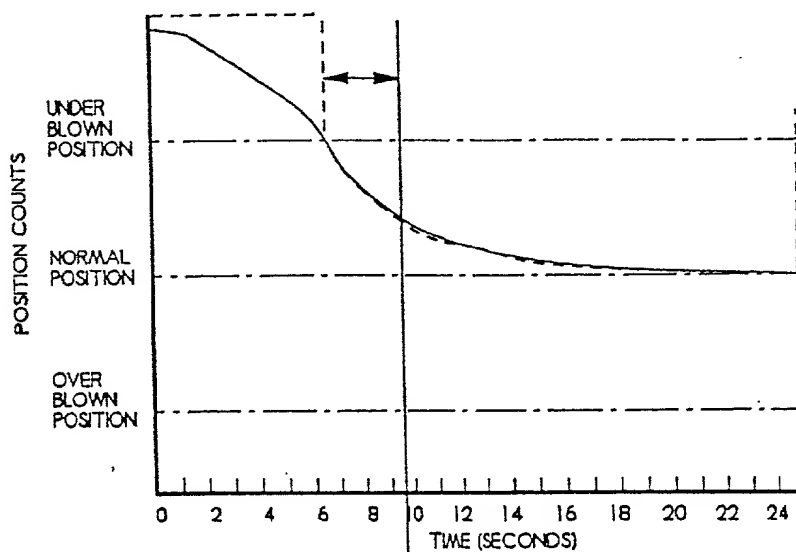


FIGURE 27B

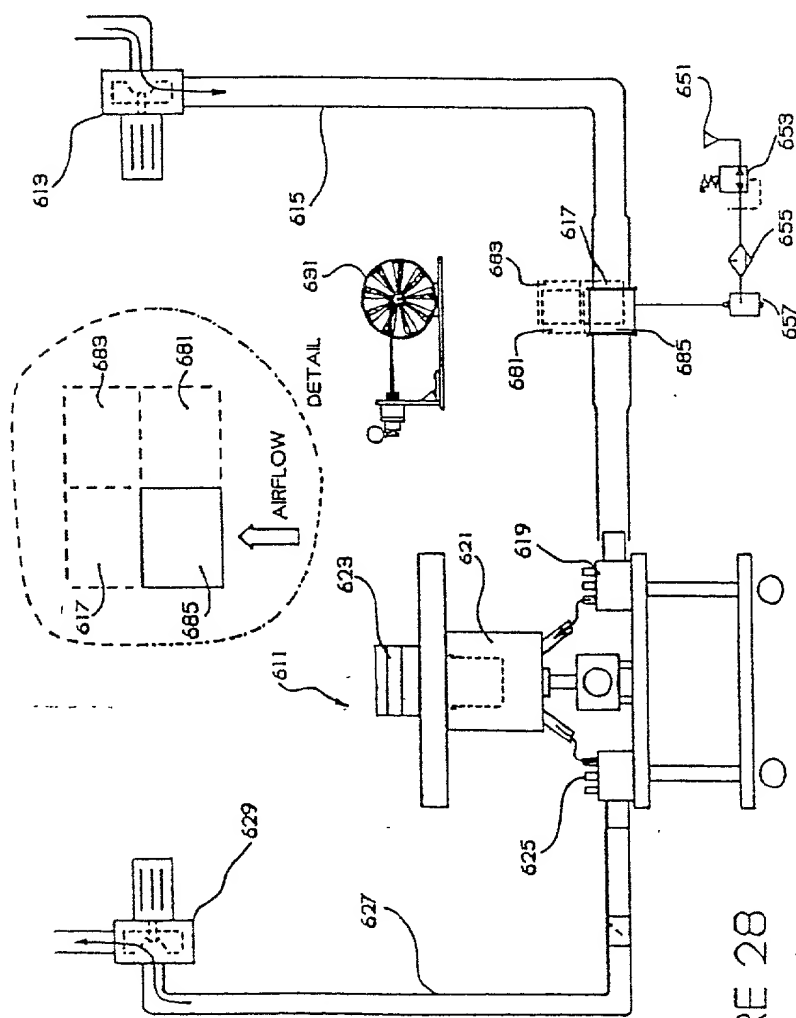


FIGURE 28

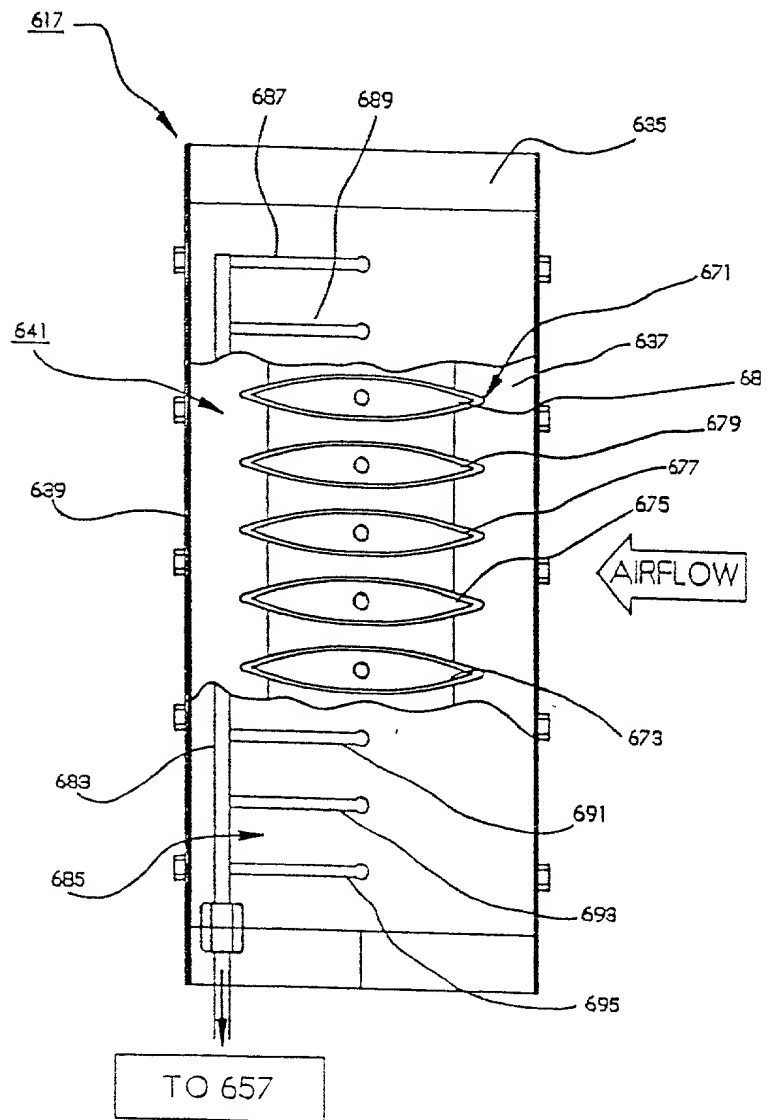


FIGURE 29

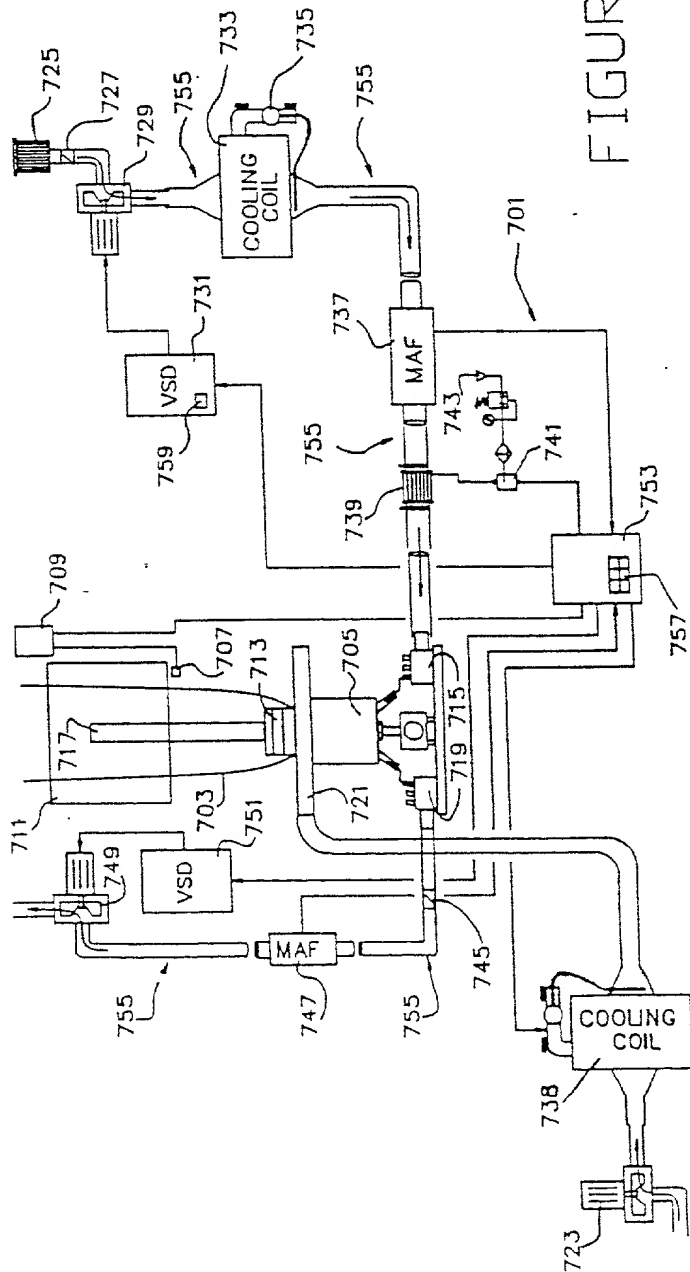


FIGURE 30

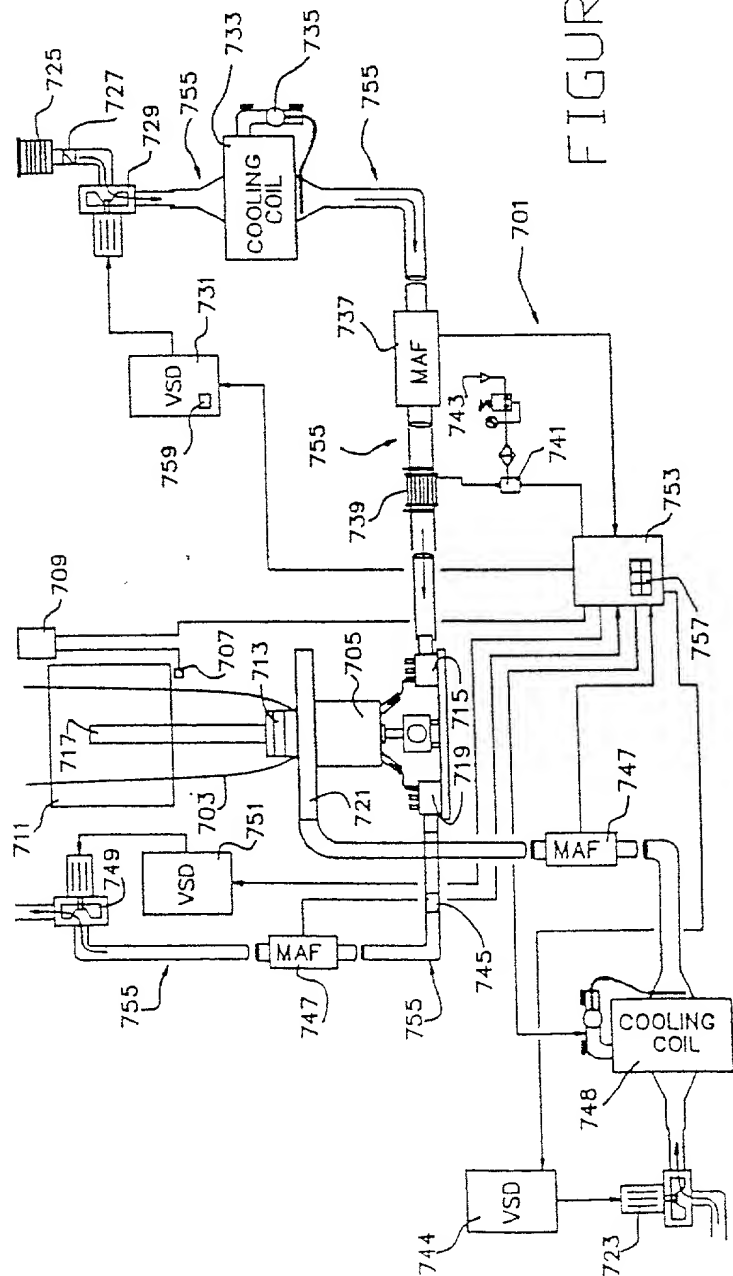


FIGURE 31

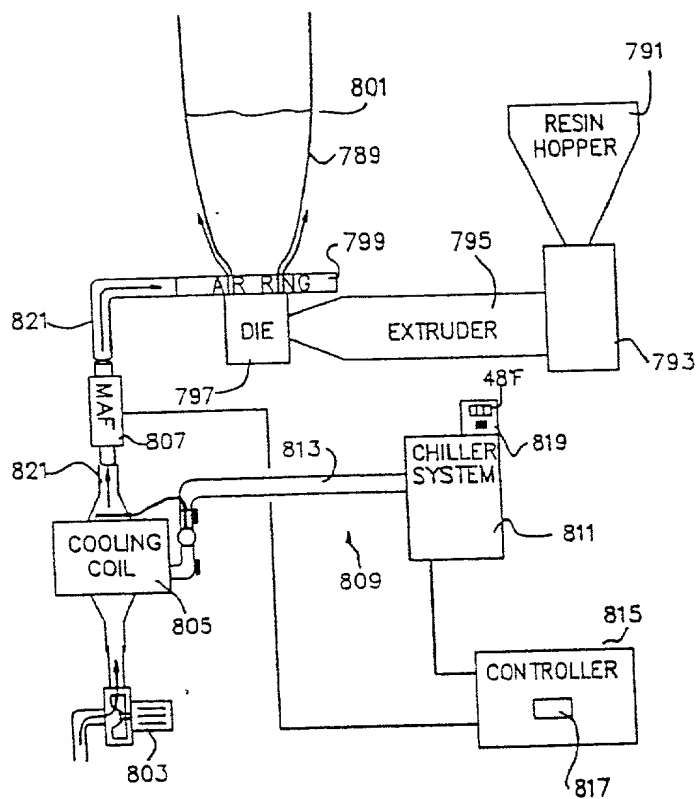


FIGURE 32

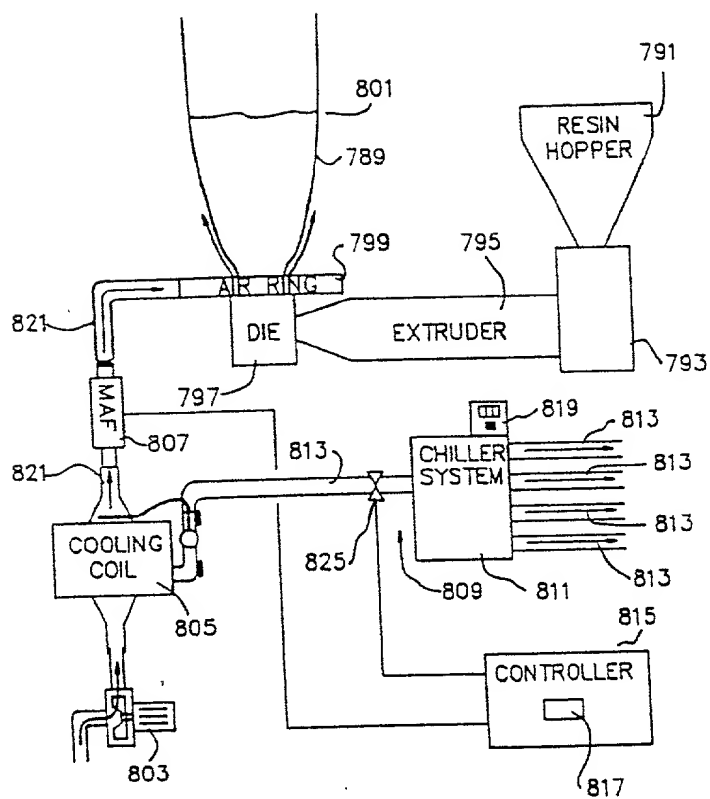


FIGURE 33

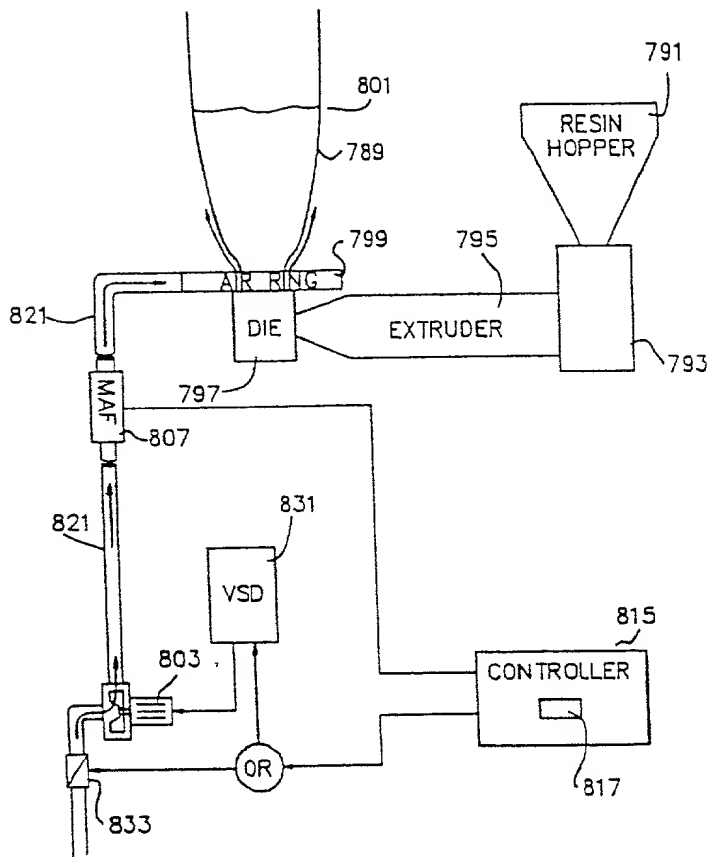


FIGURE 34

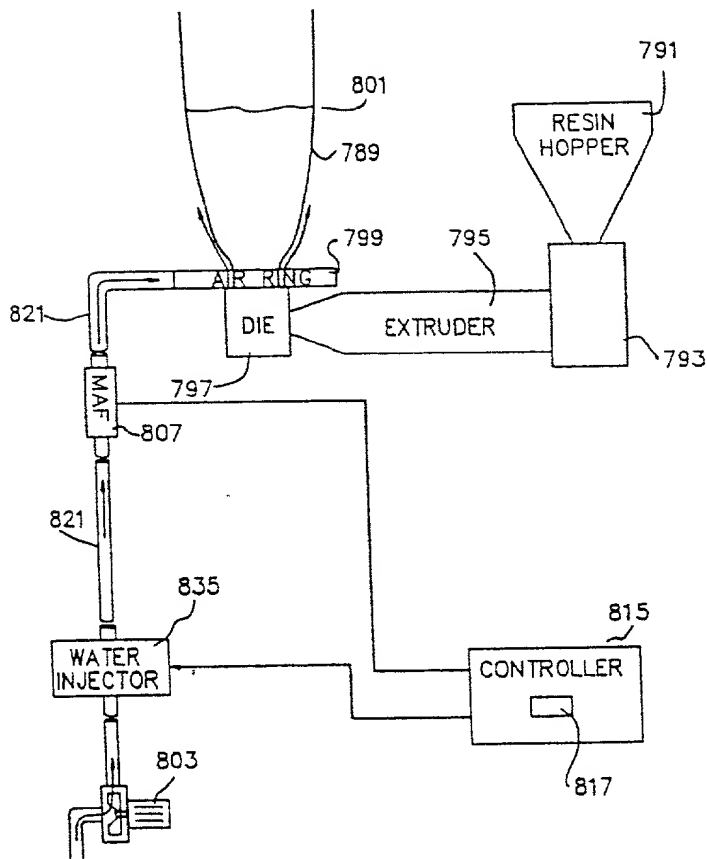


FIGURE 35

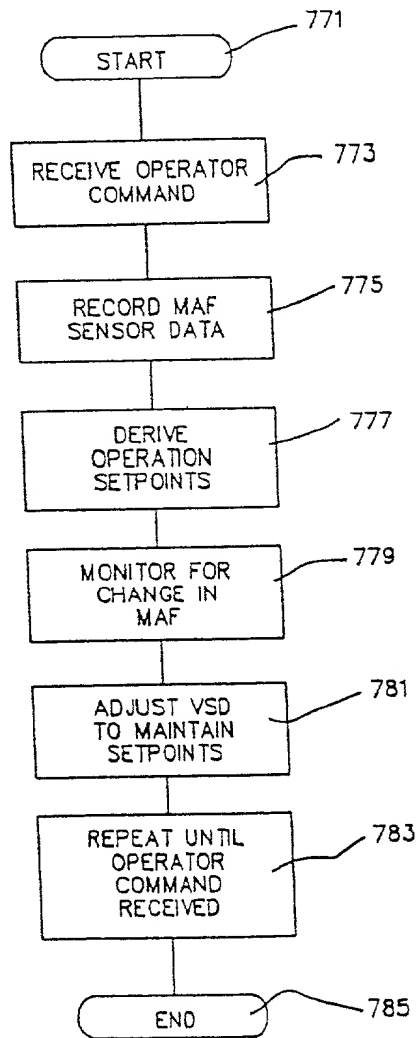


FIGURE 36

09829084-031501

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

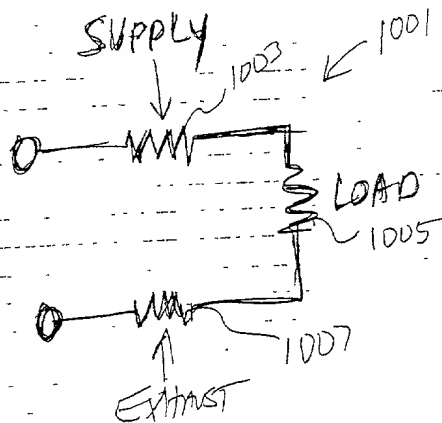


FIGURE 37A
(PRIOR ART)

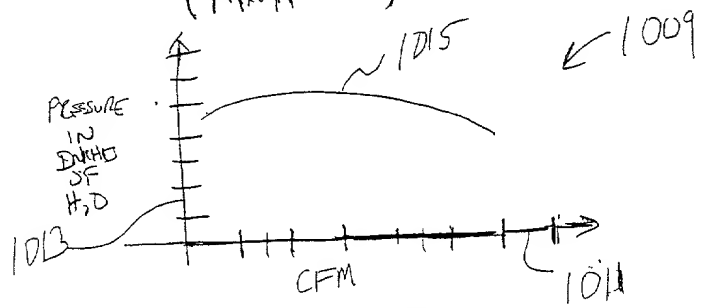


FIGURE 37B
(PRIOR ART)

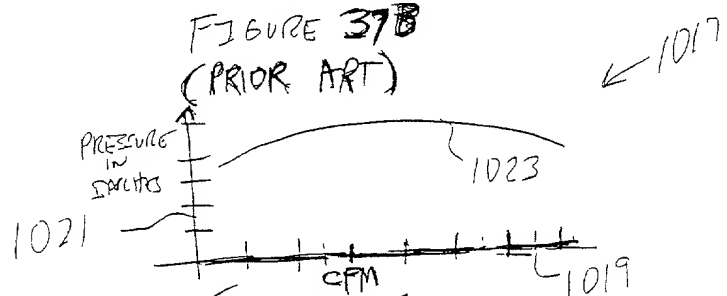


FIGURE 37C
(PRIOR ART)

Attorney _____



FIGURE 37D

FIG. 37E

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

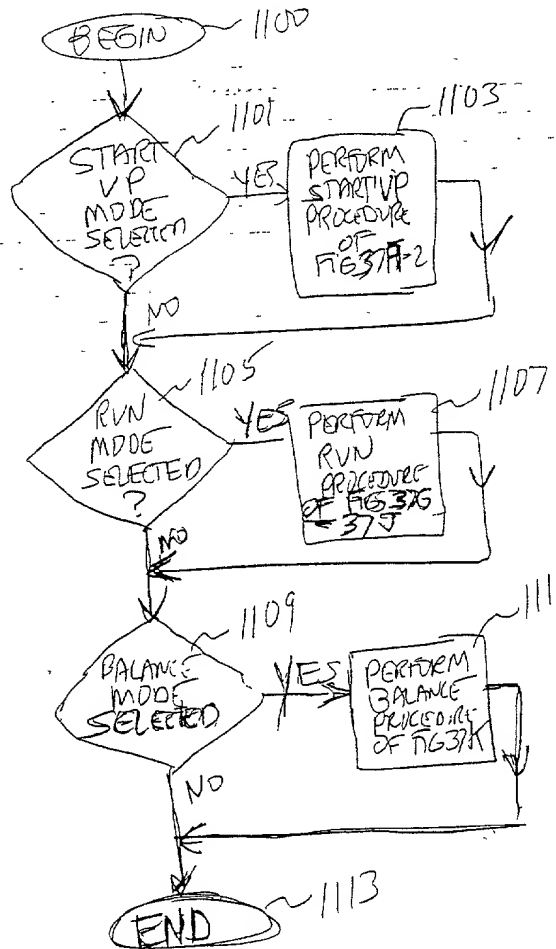


FIGURE 37 E

09829084-081501

Client: _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney: _____

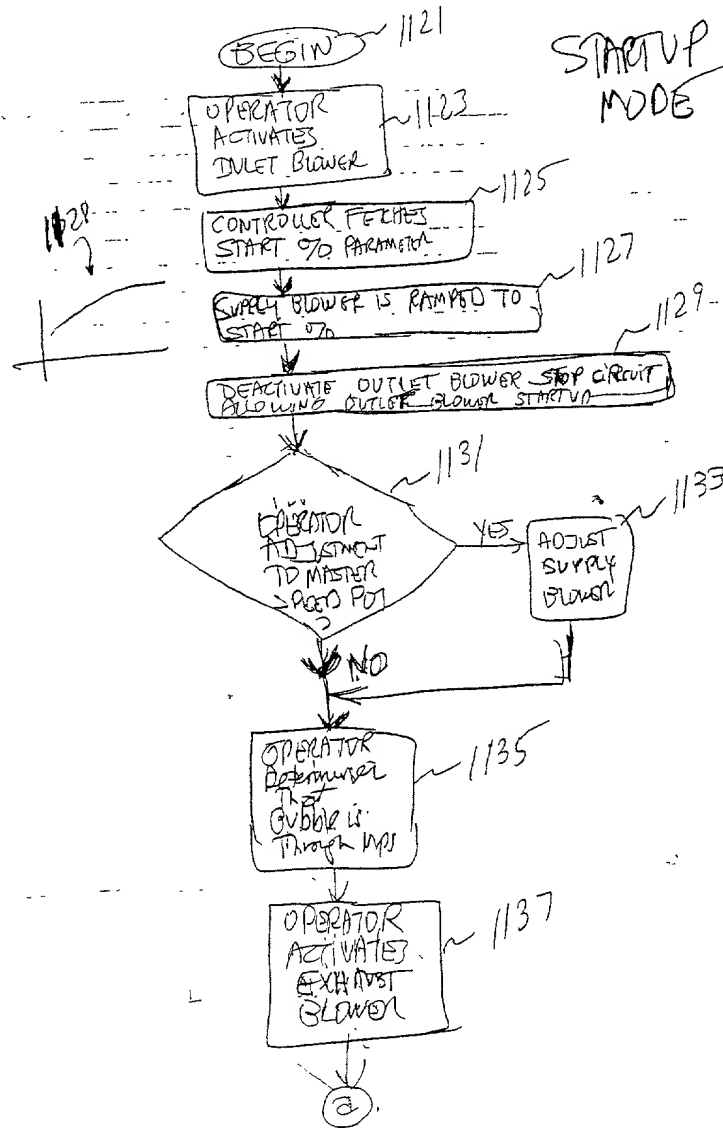


FIG 37 F

09829084-081501

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

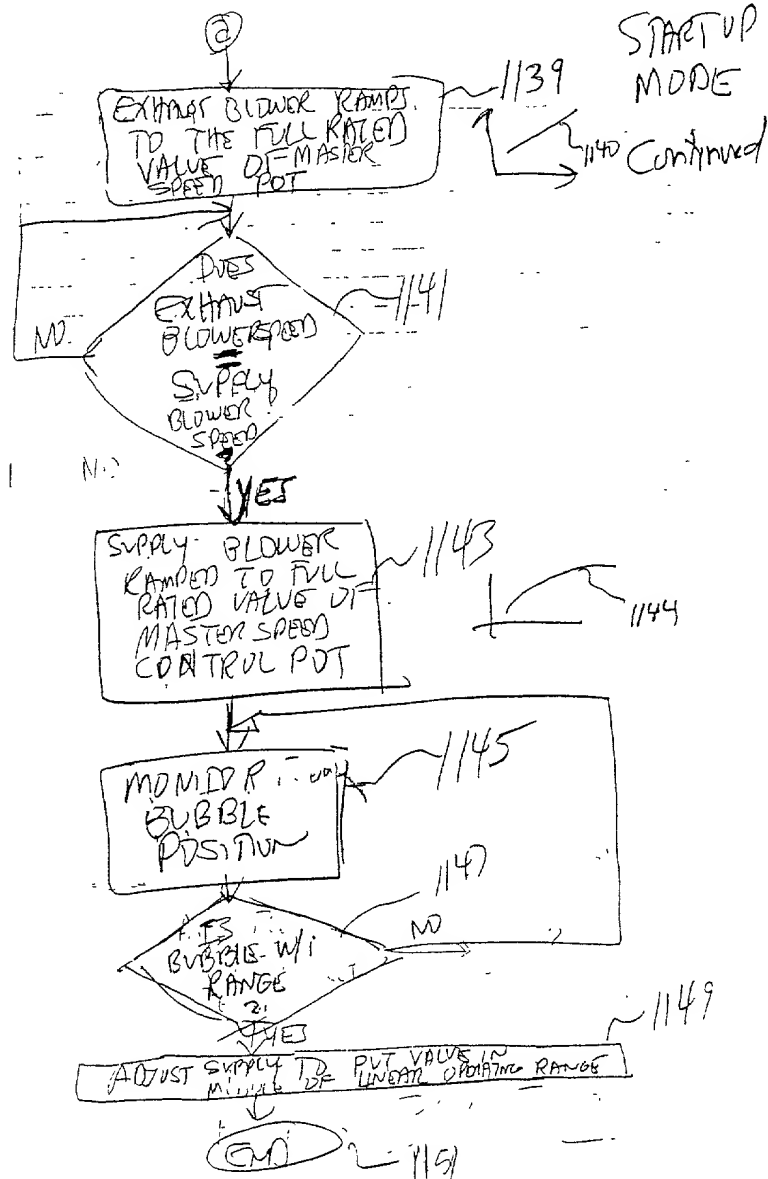


FIGURE 37 F2

0923034 031601

KELSON, & BRADLEY, GUNTER & GUNTER
ATTORNEYS

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

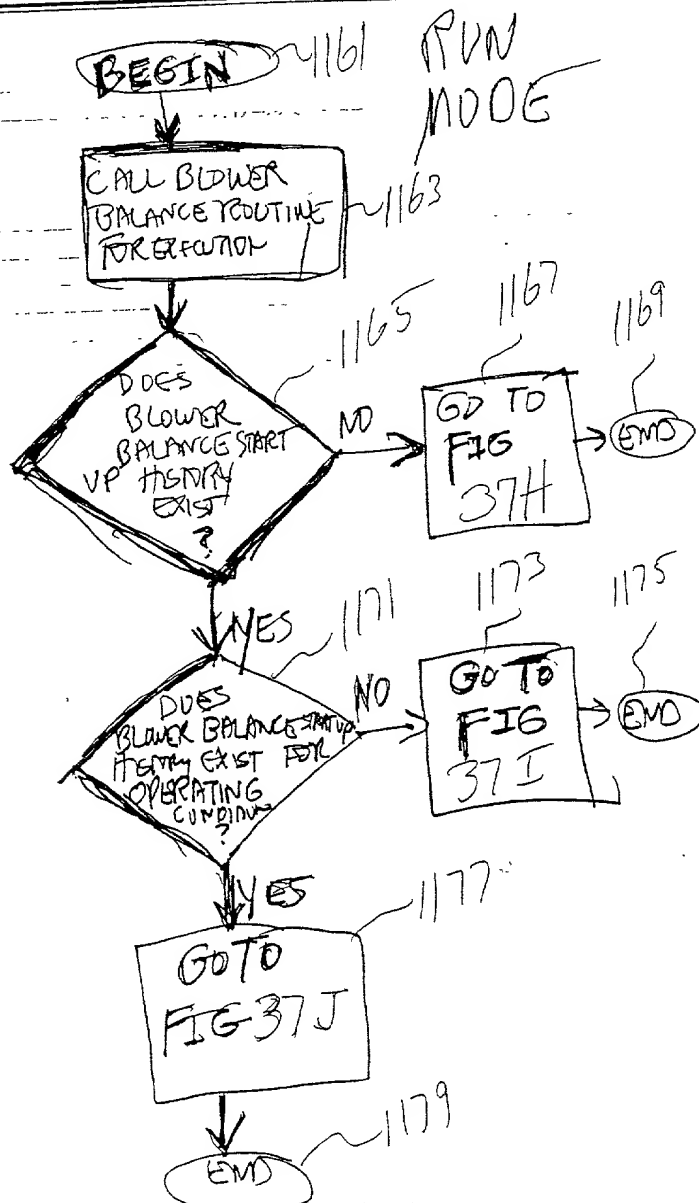


FIGURE 37G

Attorney _____

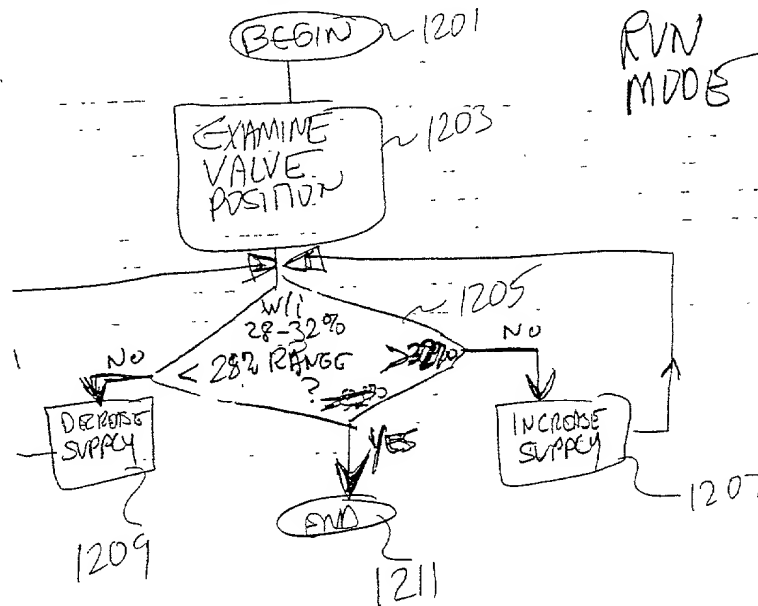


FIGURE 37H

[illegible]

PATENT SKETCH FORM

Attorney _____

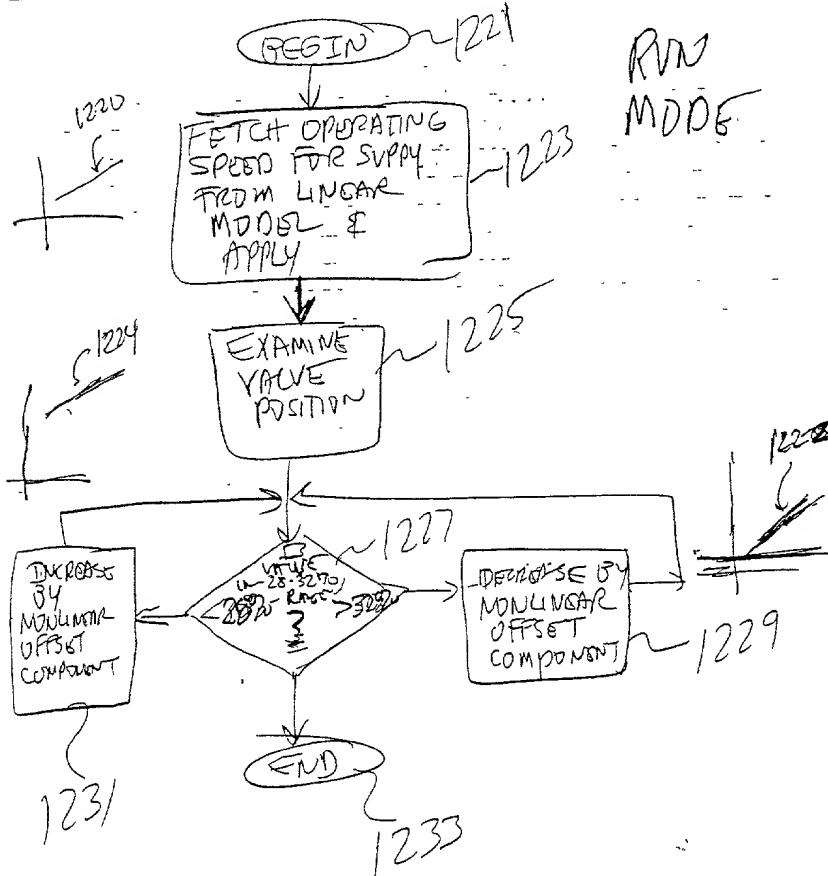


FIGURE 37 I

09329084-031501

09829084-081601

Sheet No. _____ of _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

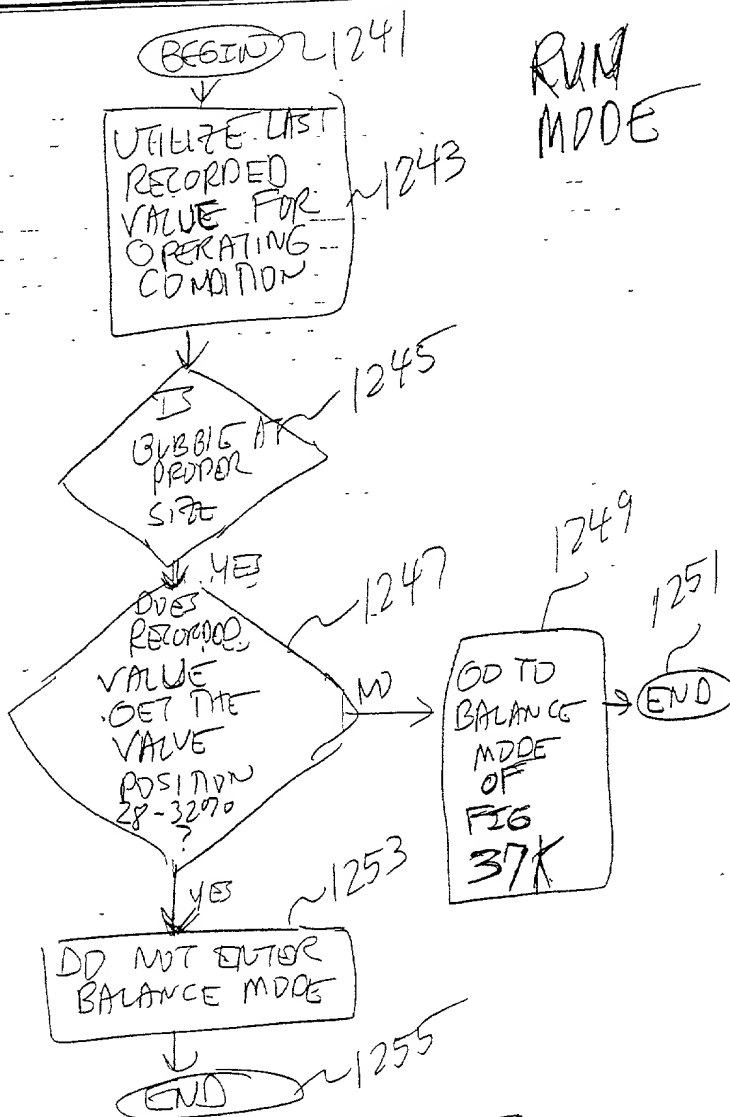


FIGURE 37J

PATENT SKETCH FORM

Attorney _____

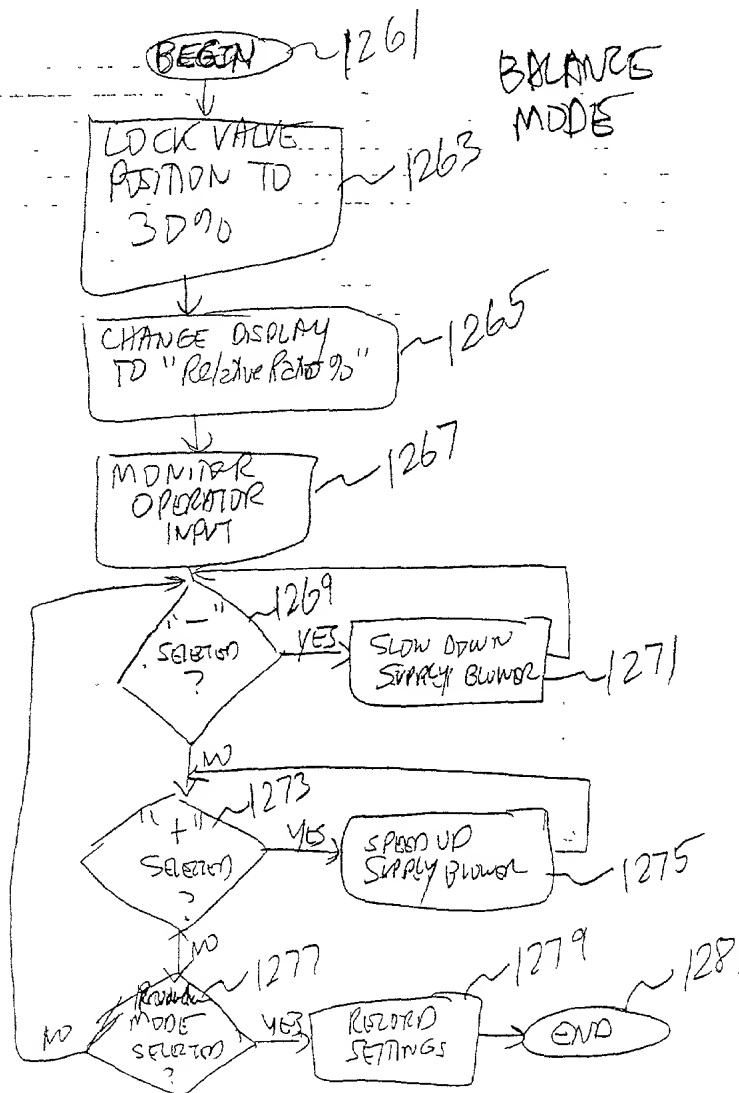


FIGURE 37K

09220284-031601

09829084-081601

ATTORNEYS

Client _____
File No. _____
Sheet No. _____ of _____

PATENT SKETCH FORM

Attorney _____

1301 ↓ MASTER SPEED POT SETTING	1303 ↓ (Supply) SPEED	1305 ↓ REFERENCE VOLTS
A 70	AC	BD
B 70	AG	BF
⋮		
Z 0%	AM	BX

FIGURE 37L

PATENT SKETCH FORM

Attorney _____

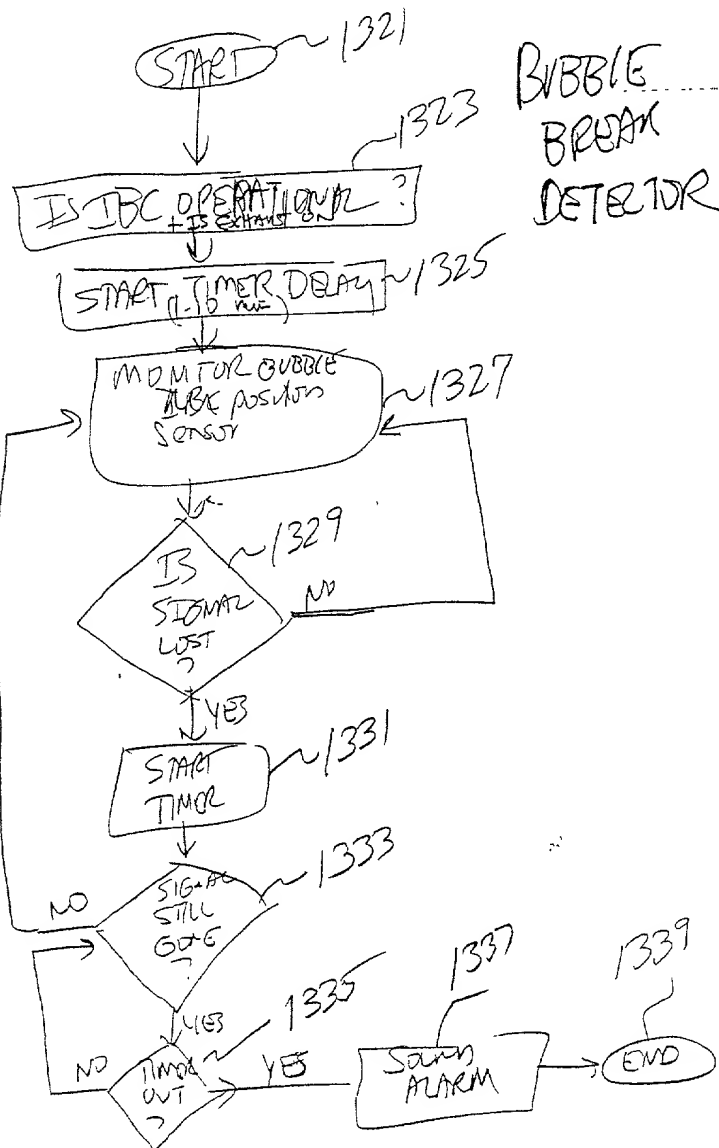
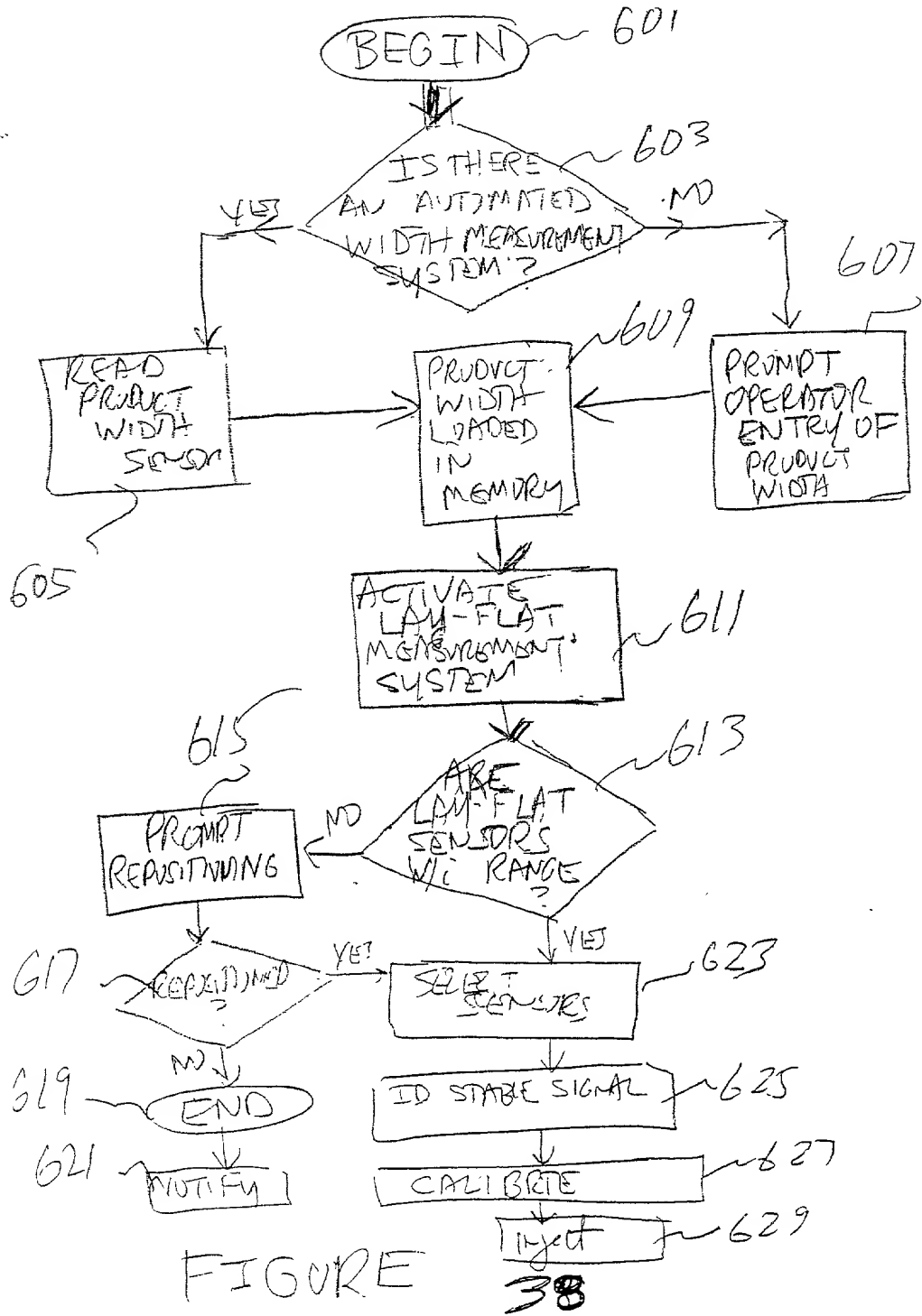


FIGURE 37M

09329084.031601



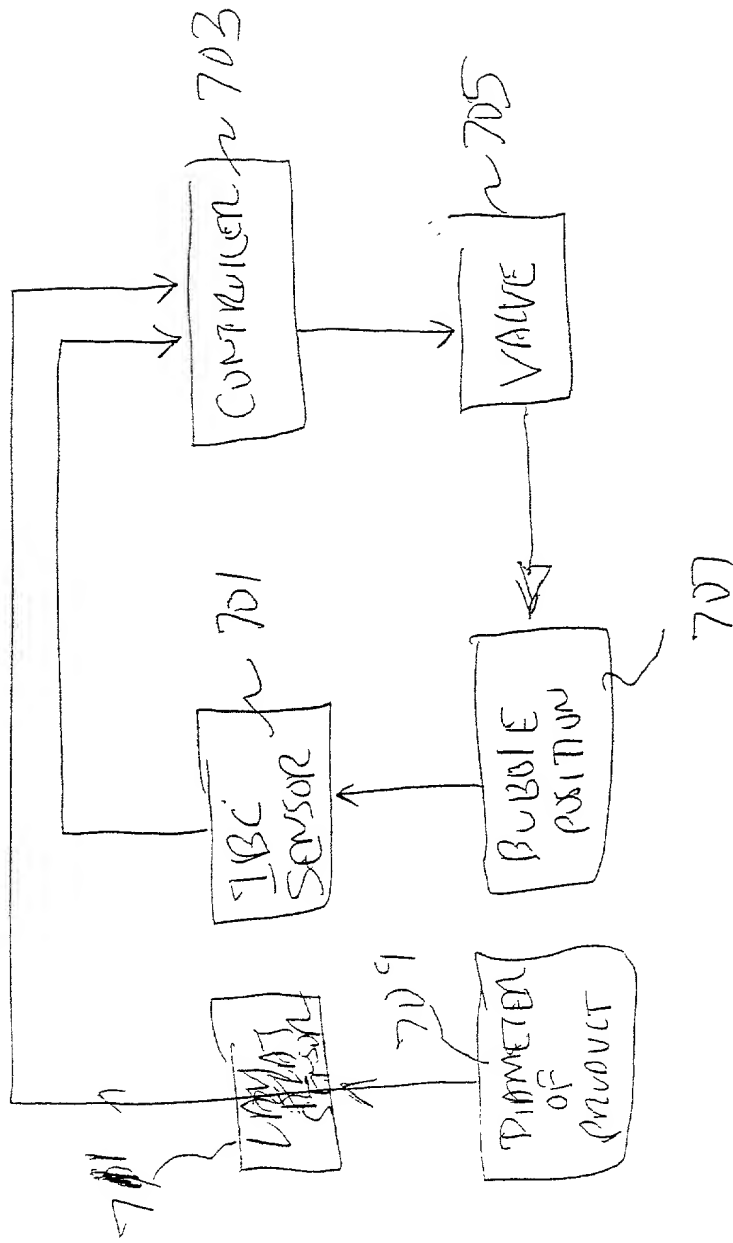


FIGURE 39

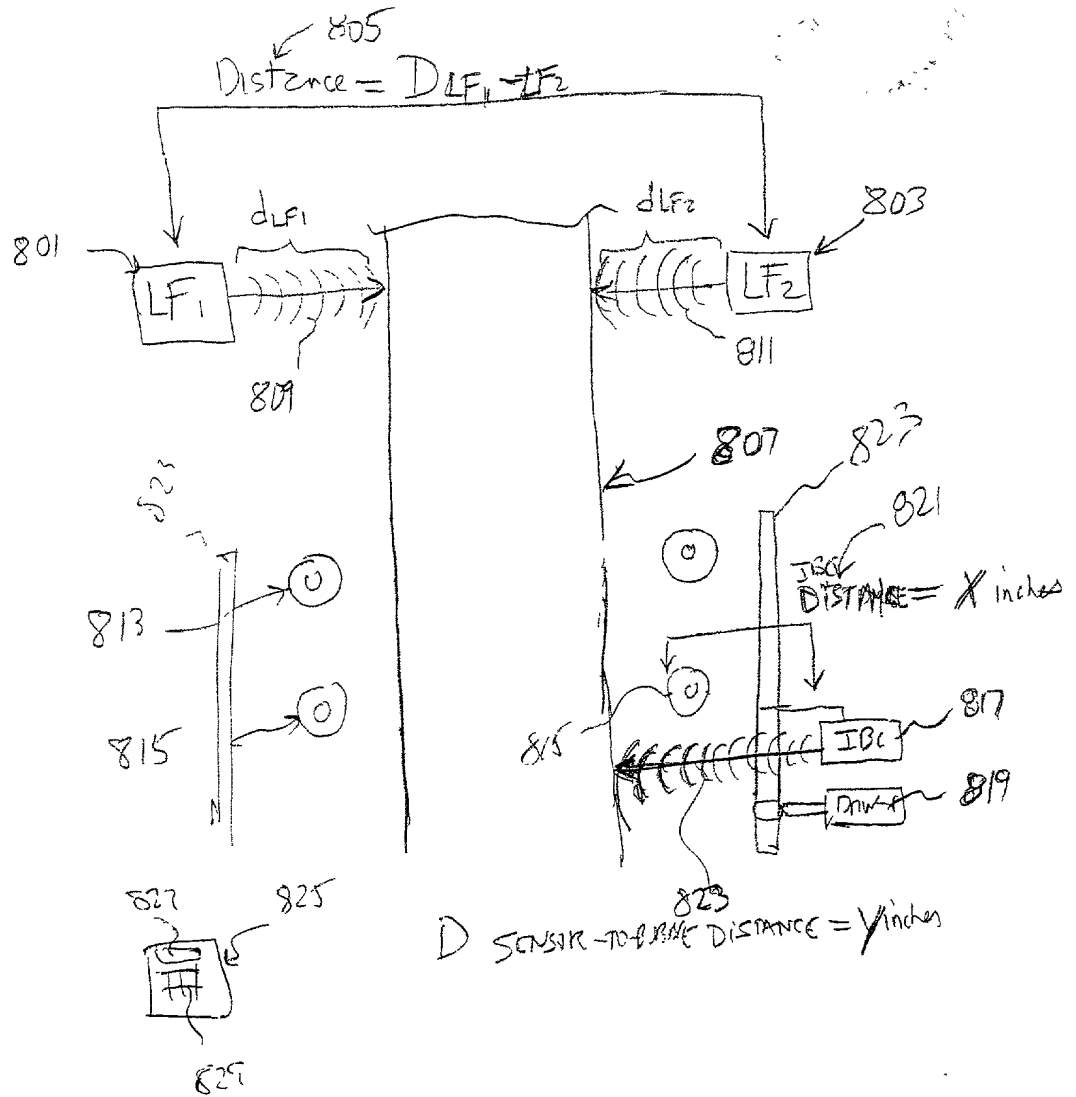
[illegible]

FIGURE 40

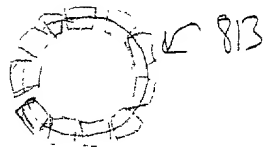


FIGURE 41

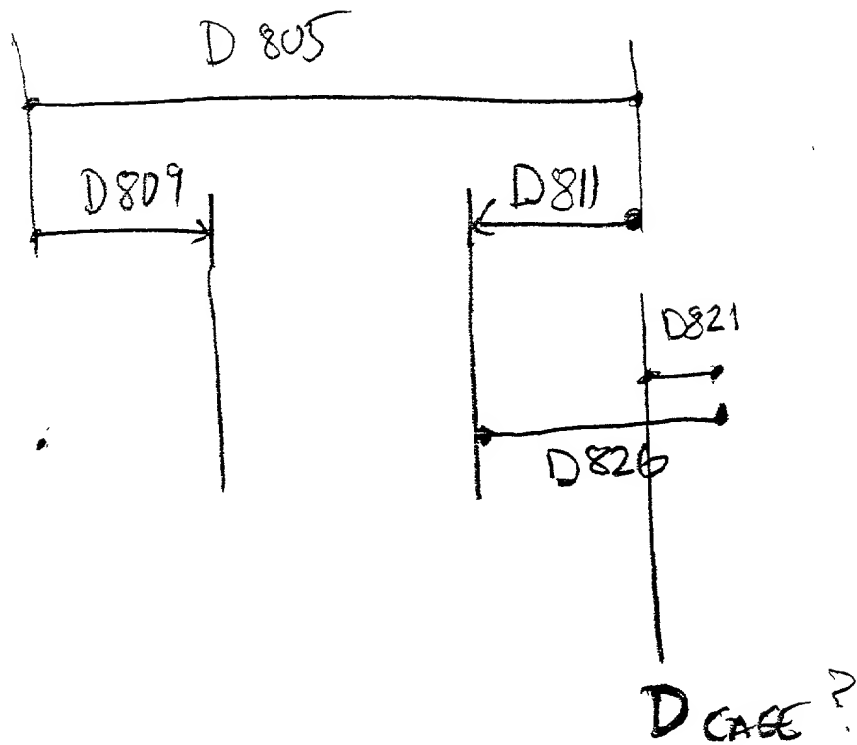
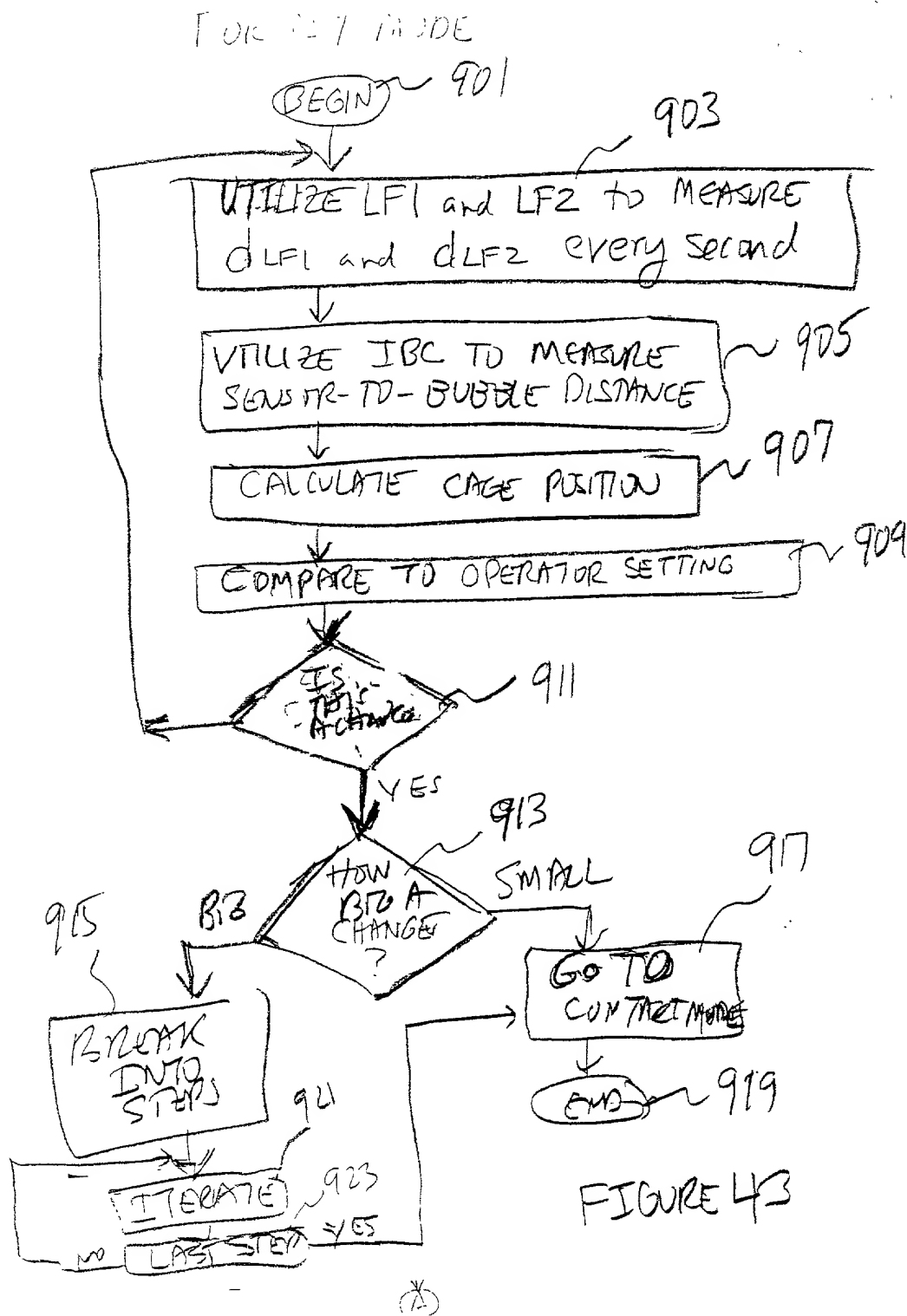


FIG 423

$$D_{CAGE} = (D805 - D809 - D811) + (D826 - D821)$$

09829084-081601



This Routine Runs
only when Echo loss occurs

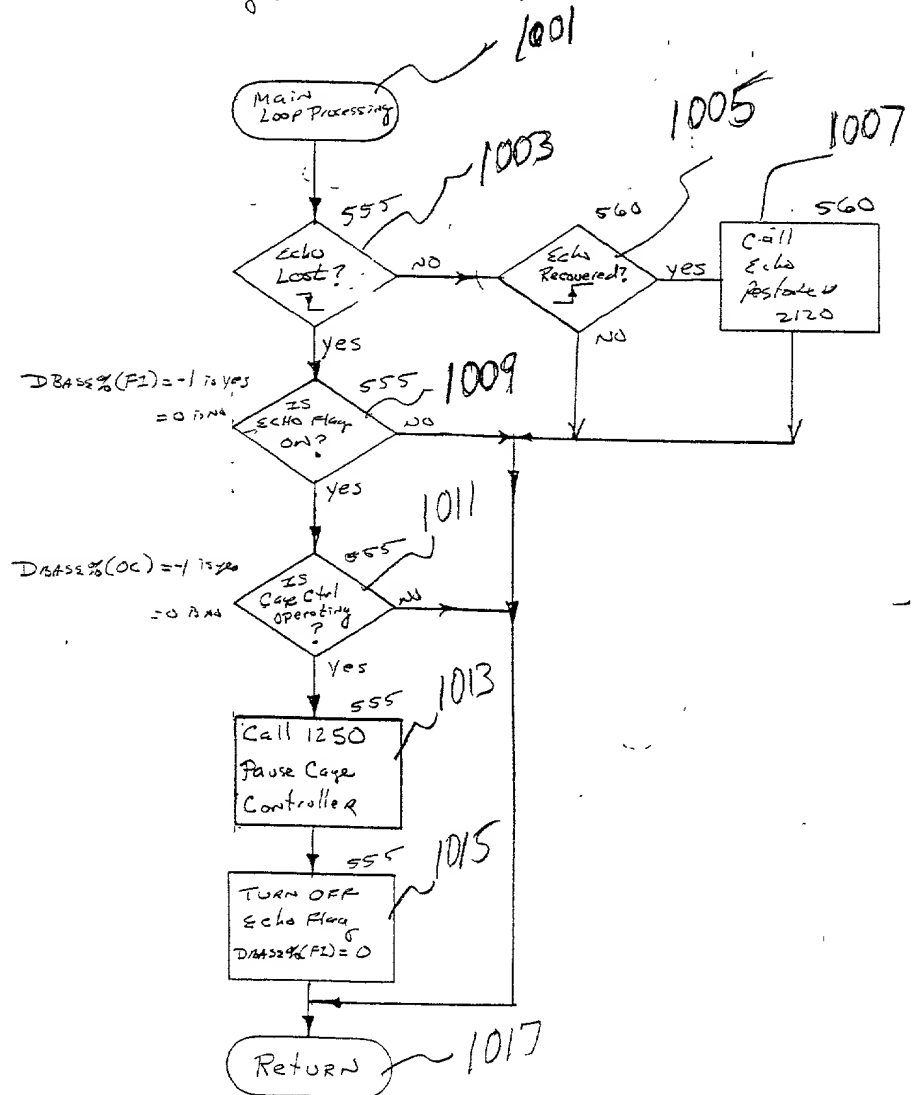
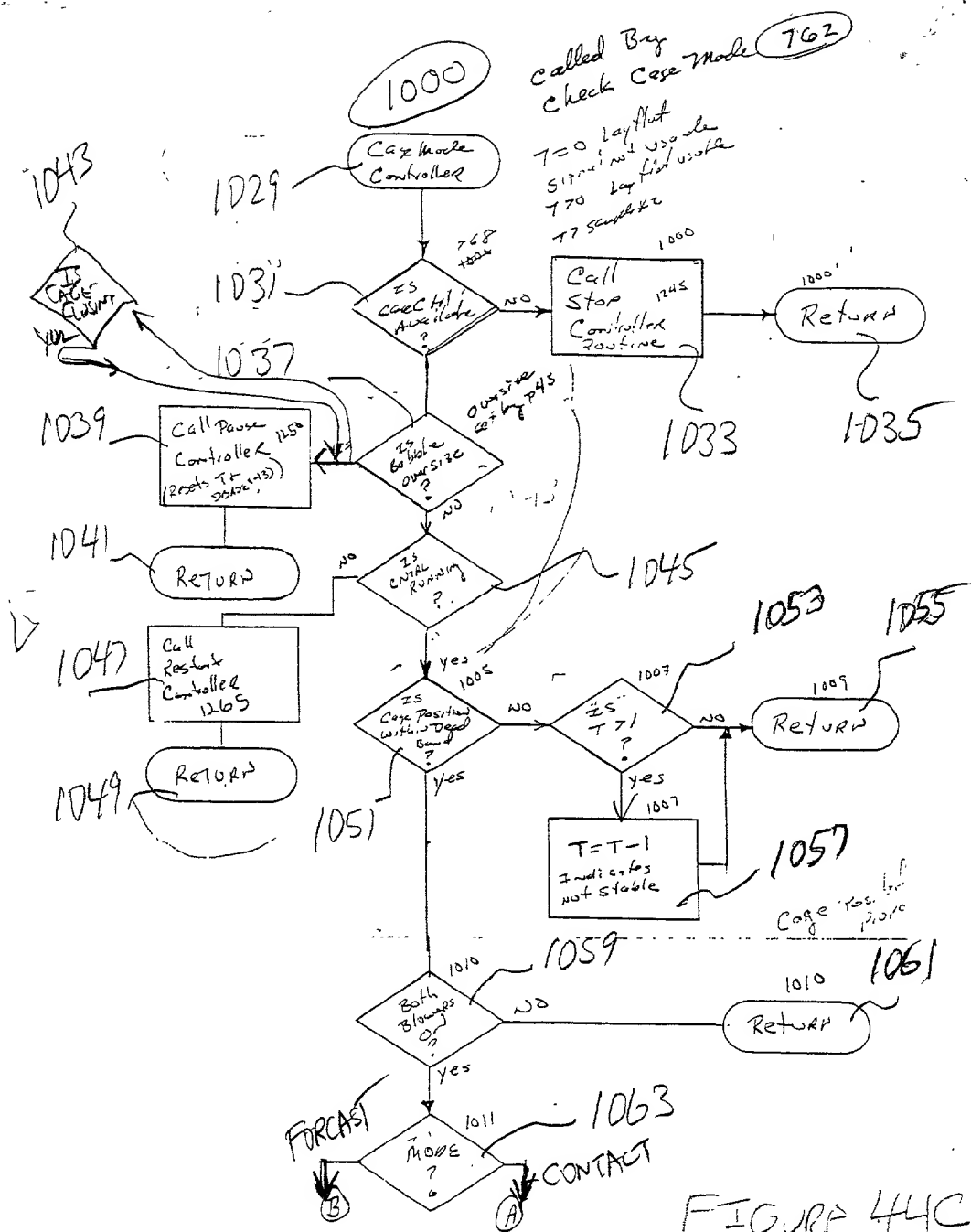


FIGURE 44A

```

graph TD
    762_15sec[762 1.5 sec Execution] --> 1019[Check Case Mode]
    1019 --> 1021{Is Case Ctrl Running?}
    1021 -- NO --> 1023{Has it been running at least 2x Execution time}
    1021 -- YES --> 1023
    1023 -- YES --> 1025[Call Case Mode Controller 1000]
    1023 -- NO --> 762_Return((762 RETURN))
    1025 --> 762_Return
    762_Return --> 1027[1027]
  
```

FIGURE 44B

[illegible]

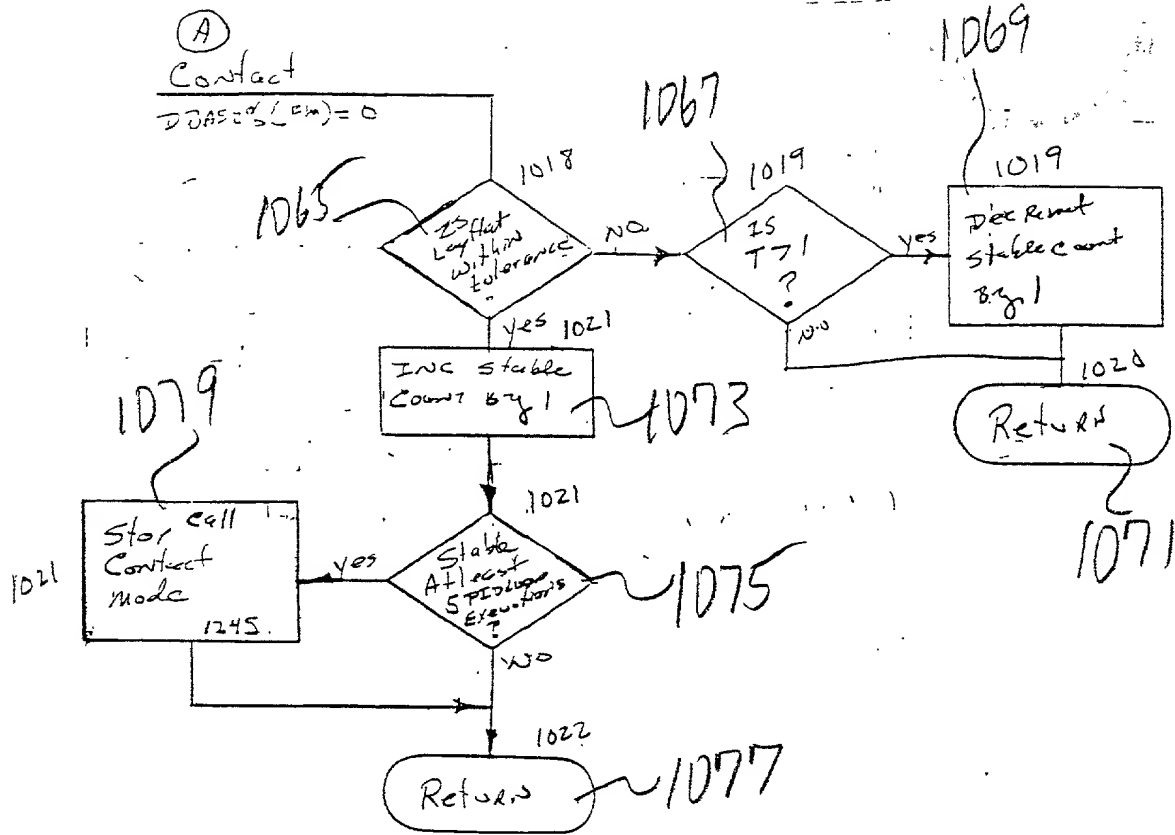
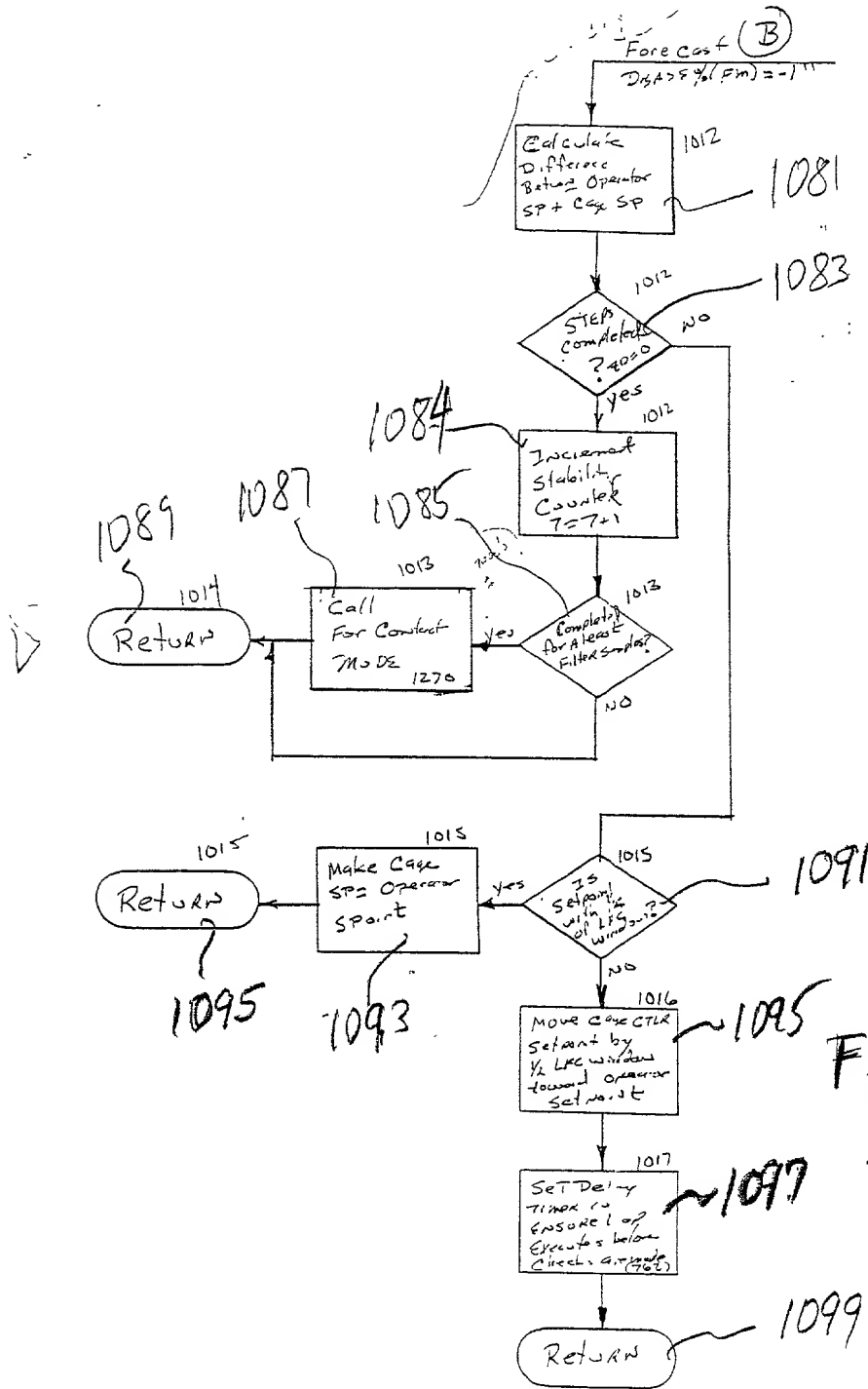


FIGURE 44D
 CONTACT MODE



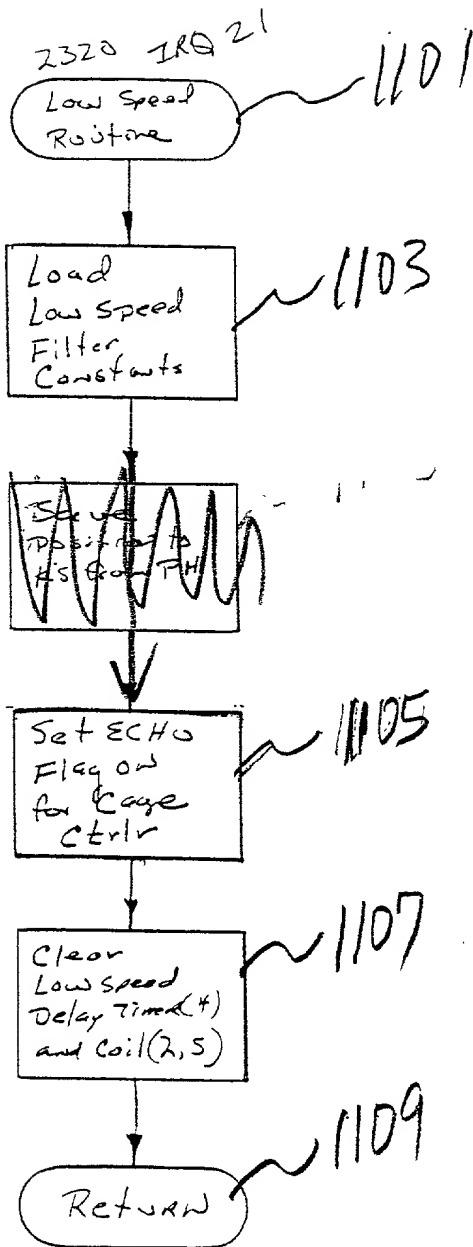


FIGURE 44 F

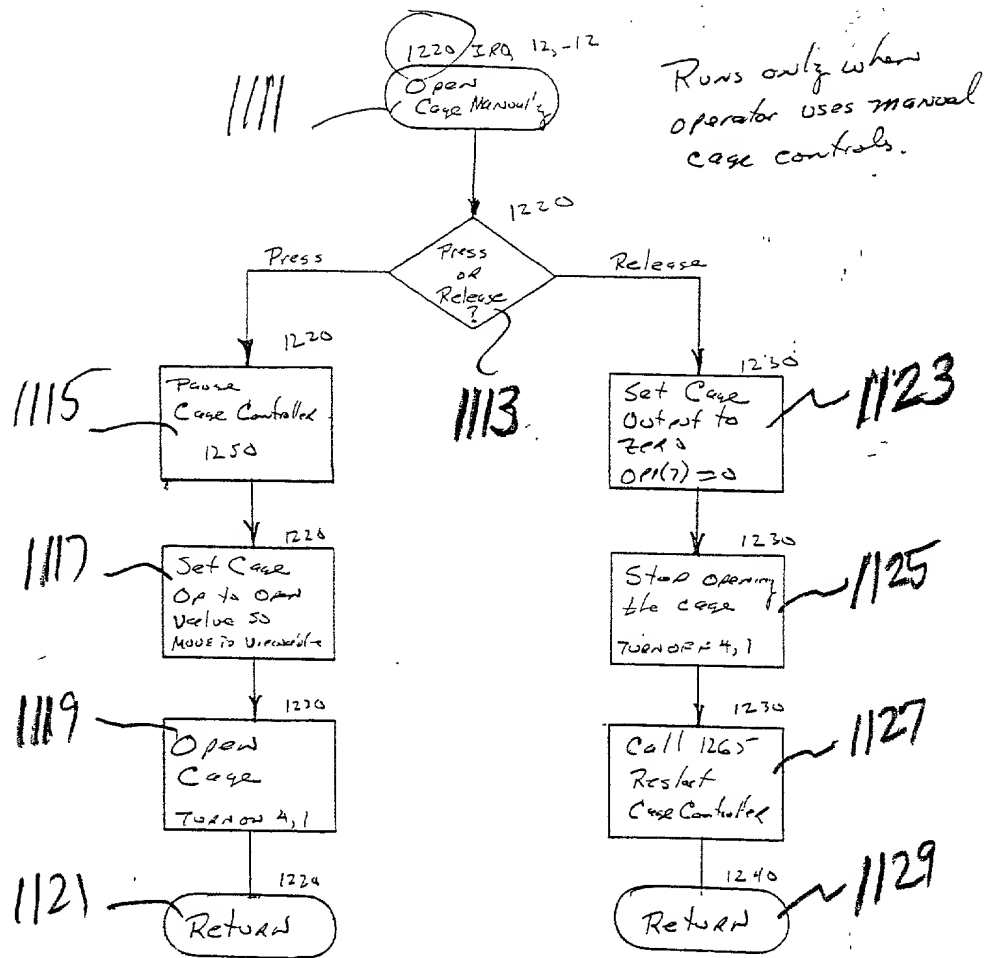


FIGURE 44G

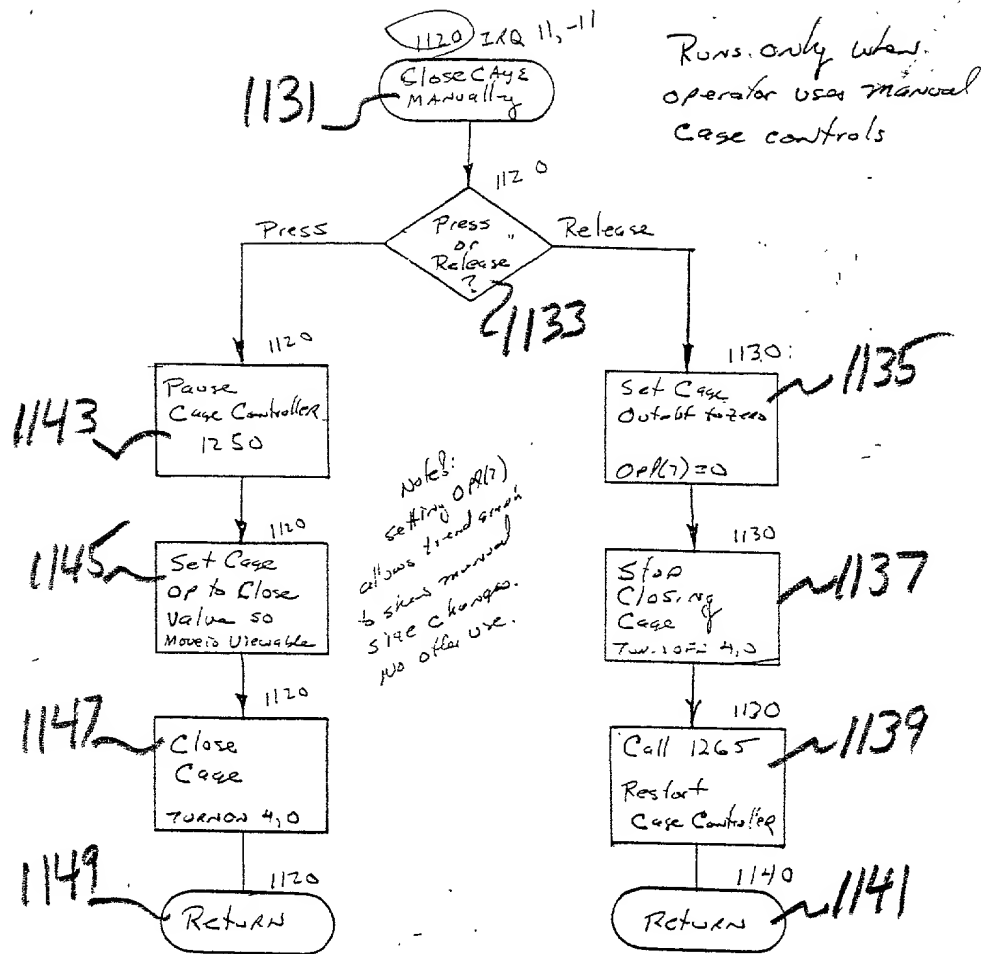


FIGURE 44 H

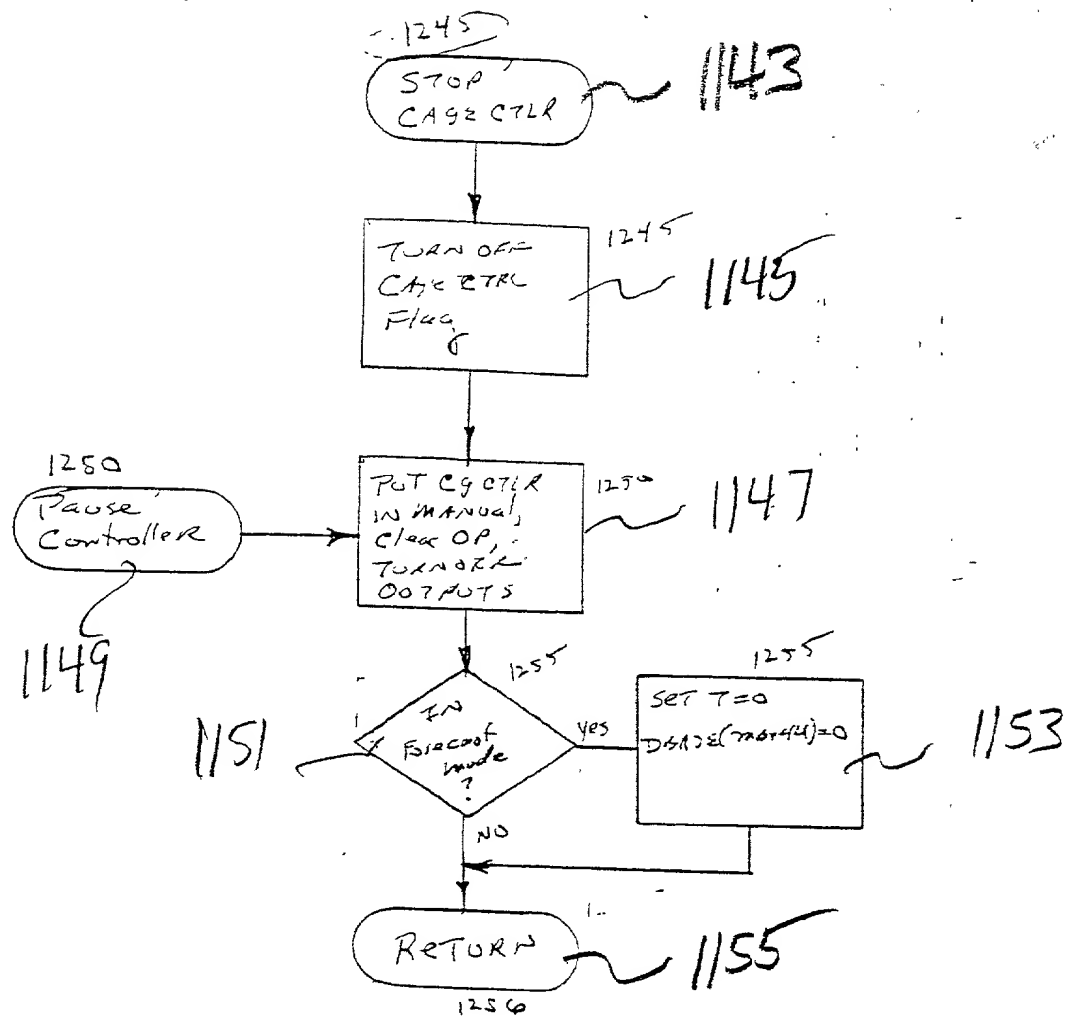


FIGURE 44 I

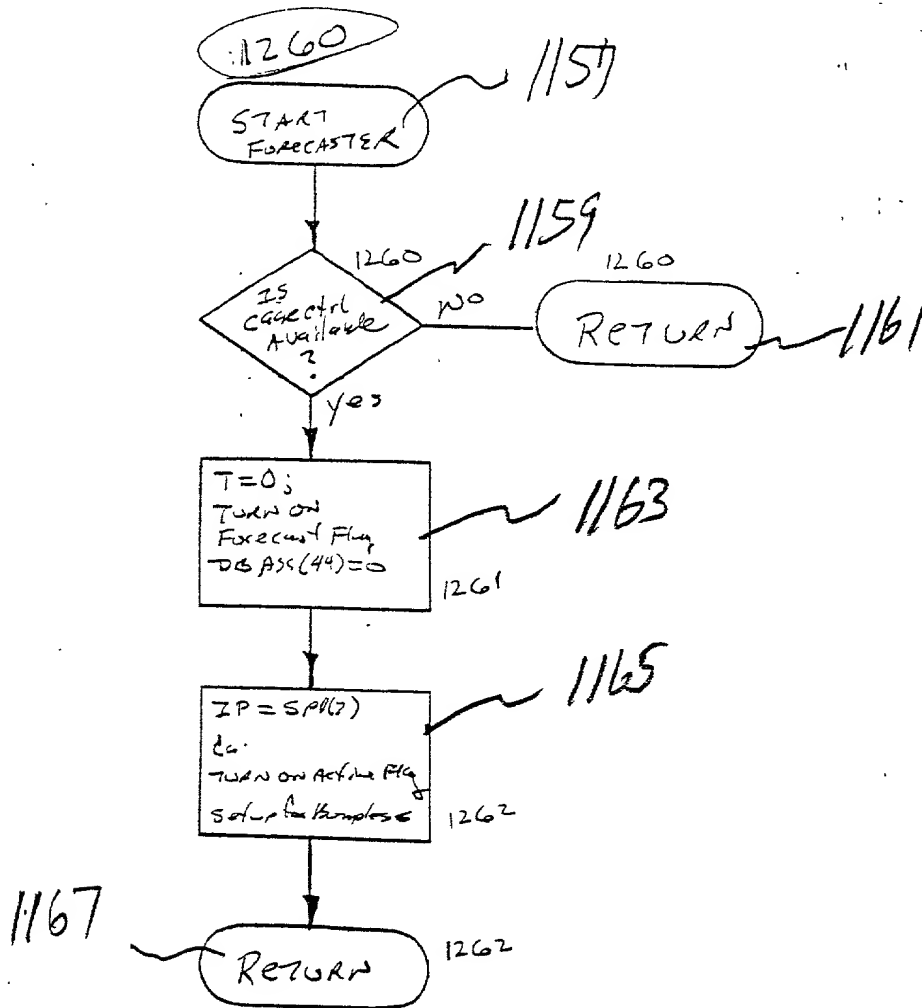


FIGURE 44J

09829084-031501

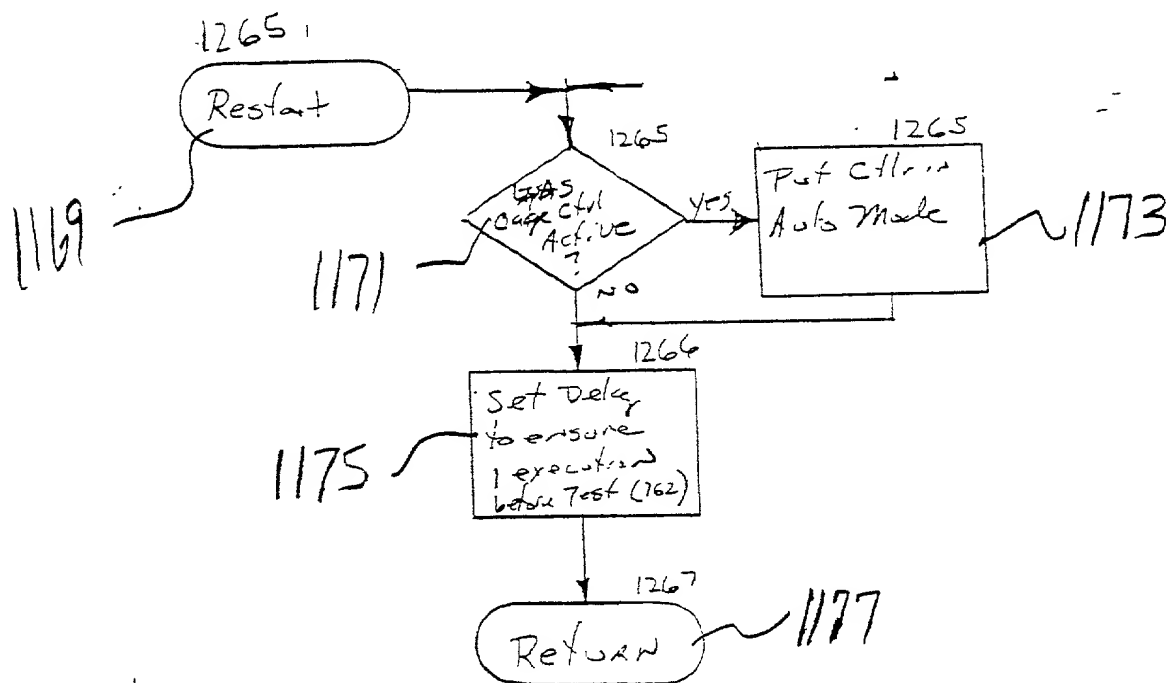


FIGURE 44K

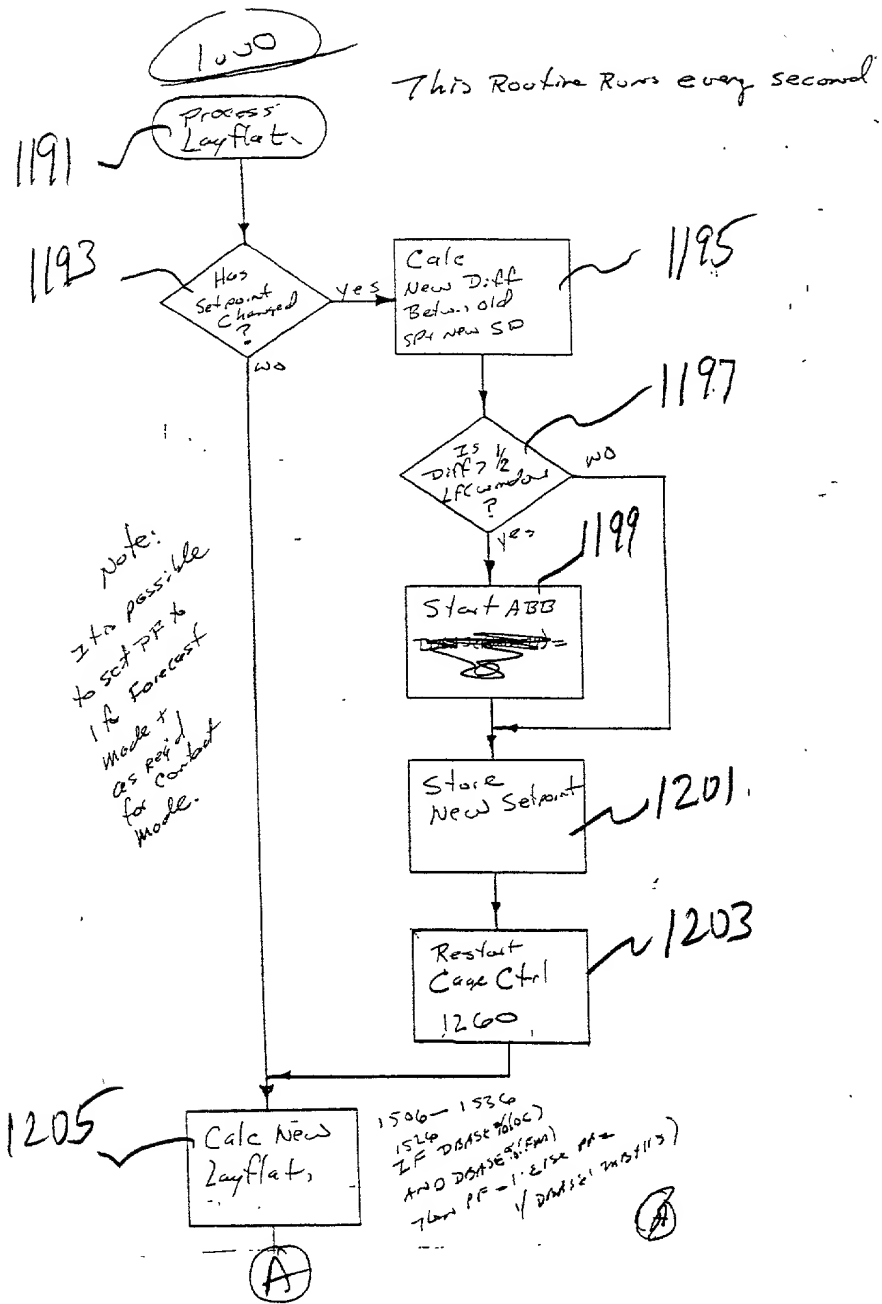


FIGURE 44M

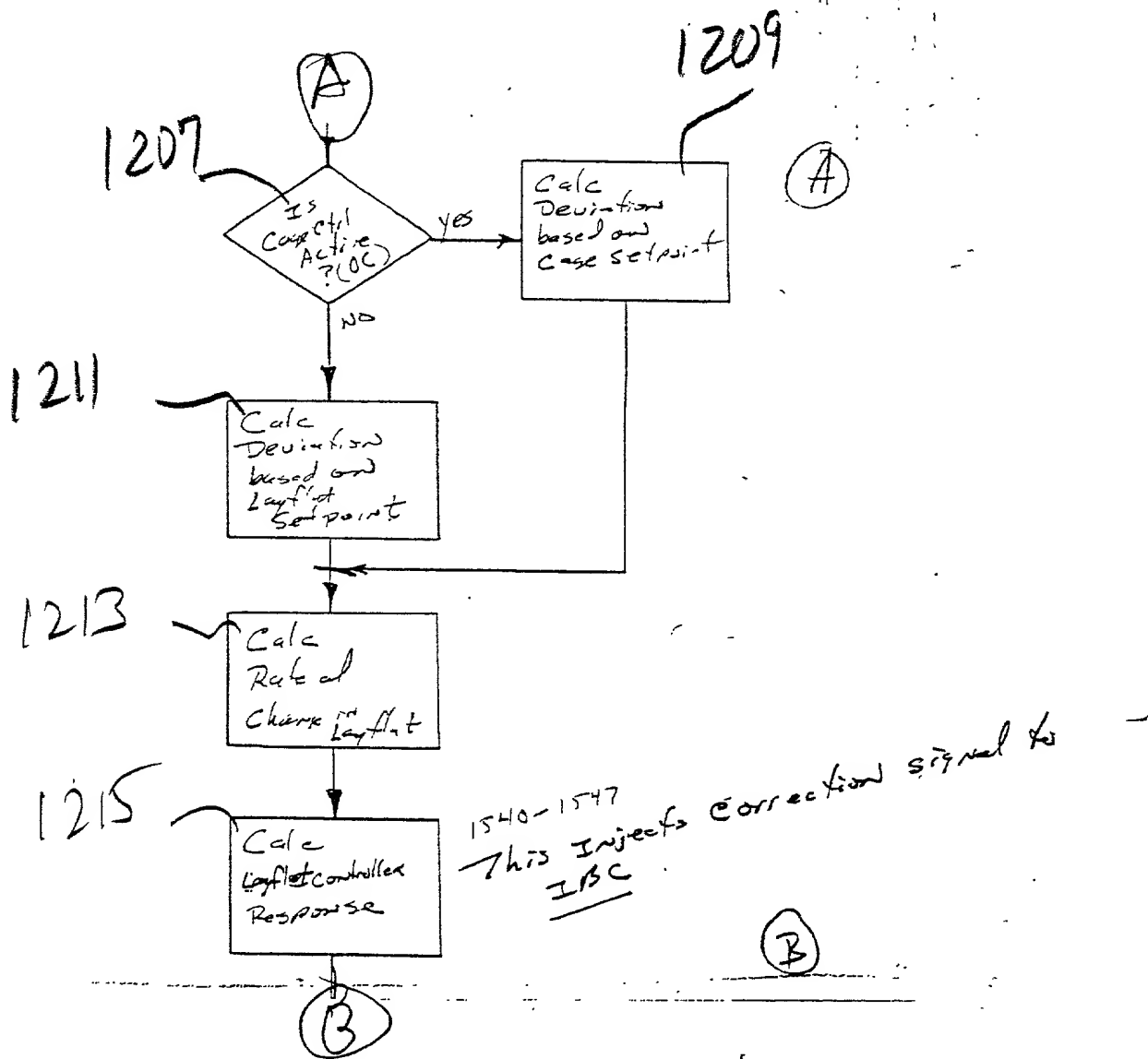
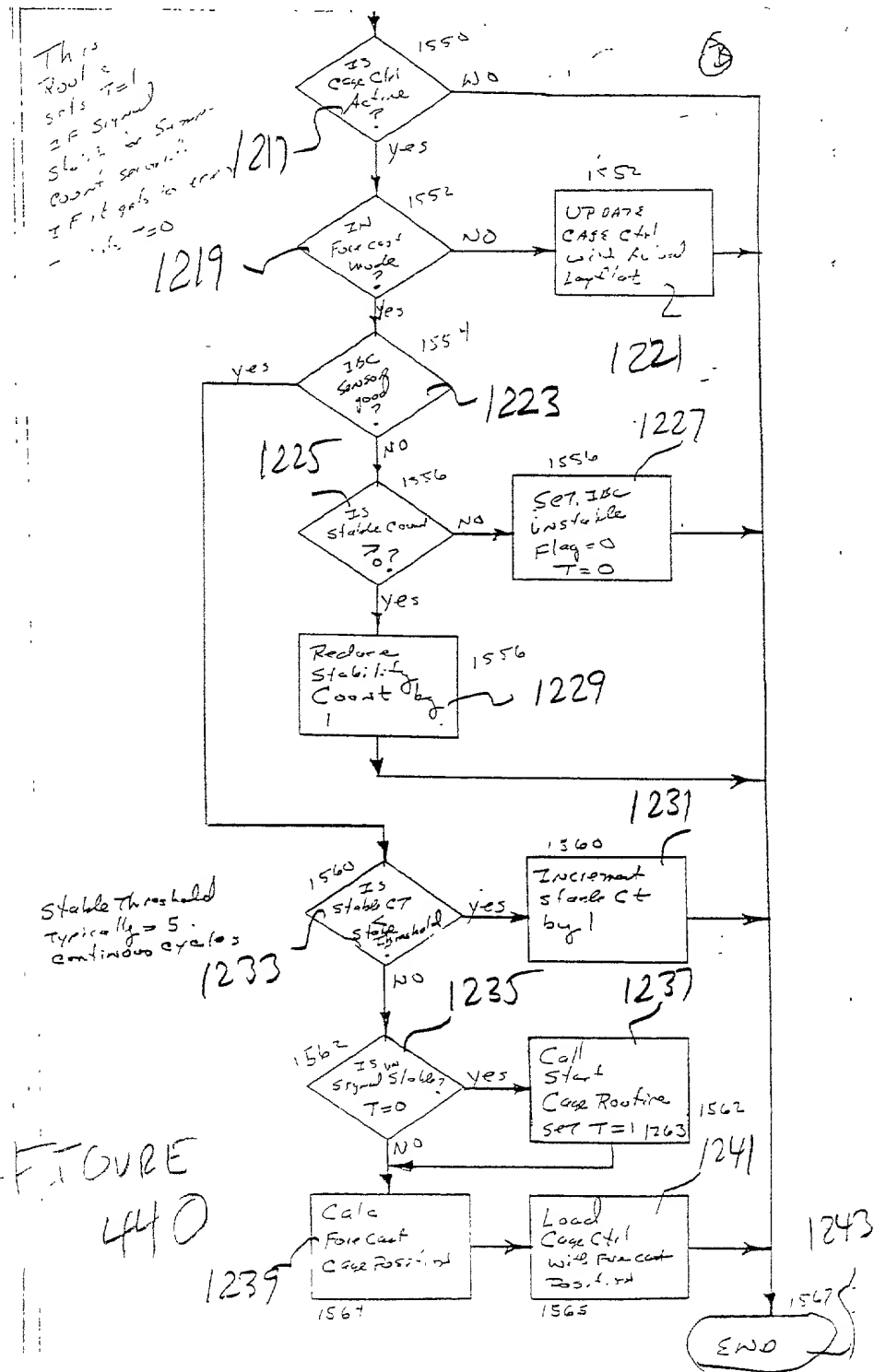


FIGURE 44N



09829084.031601

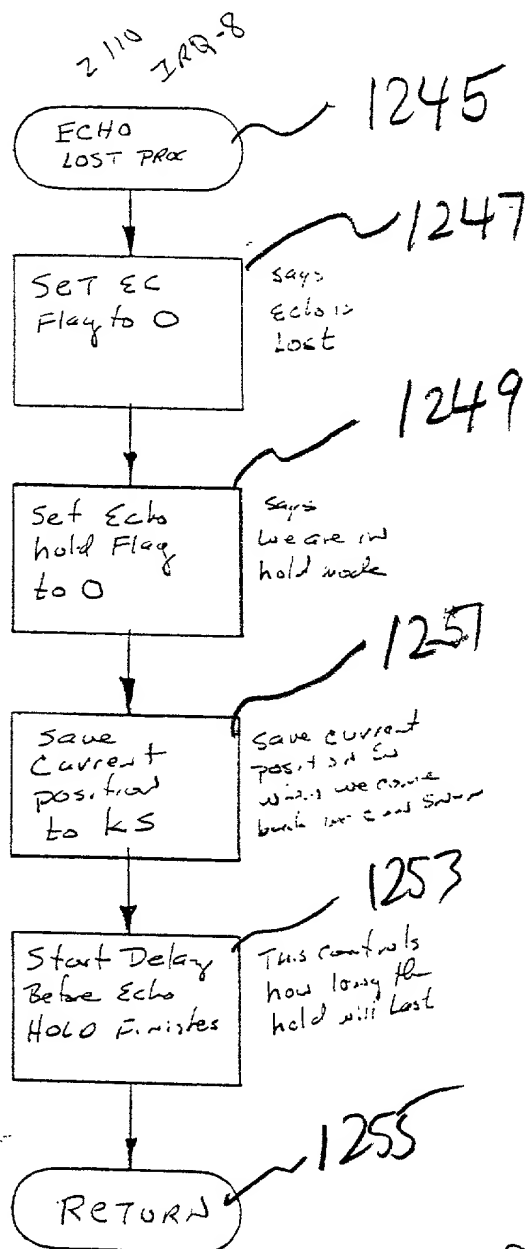


FIGURE 44 P

10929084.031601

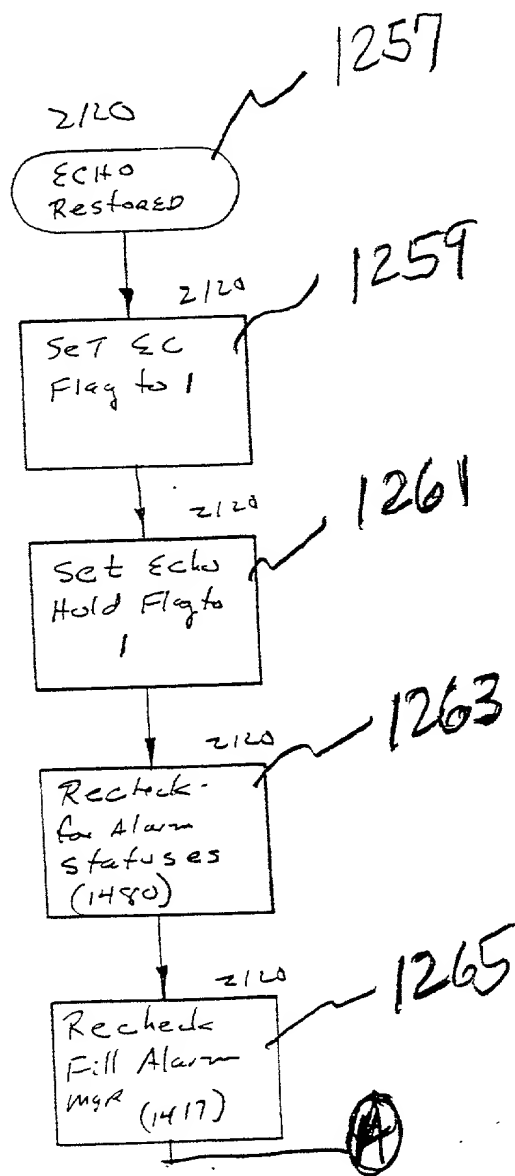


FIGURE 44Q

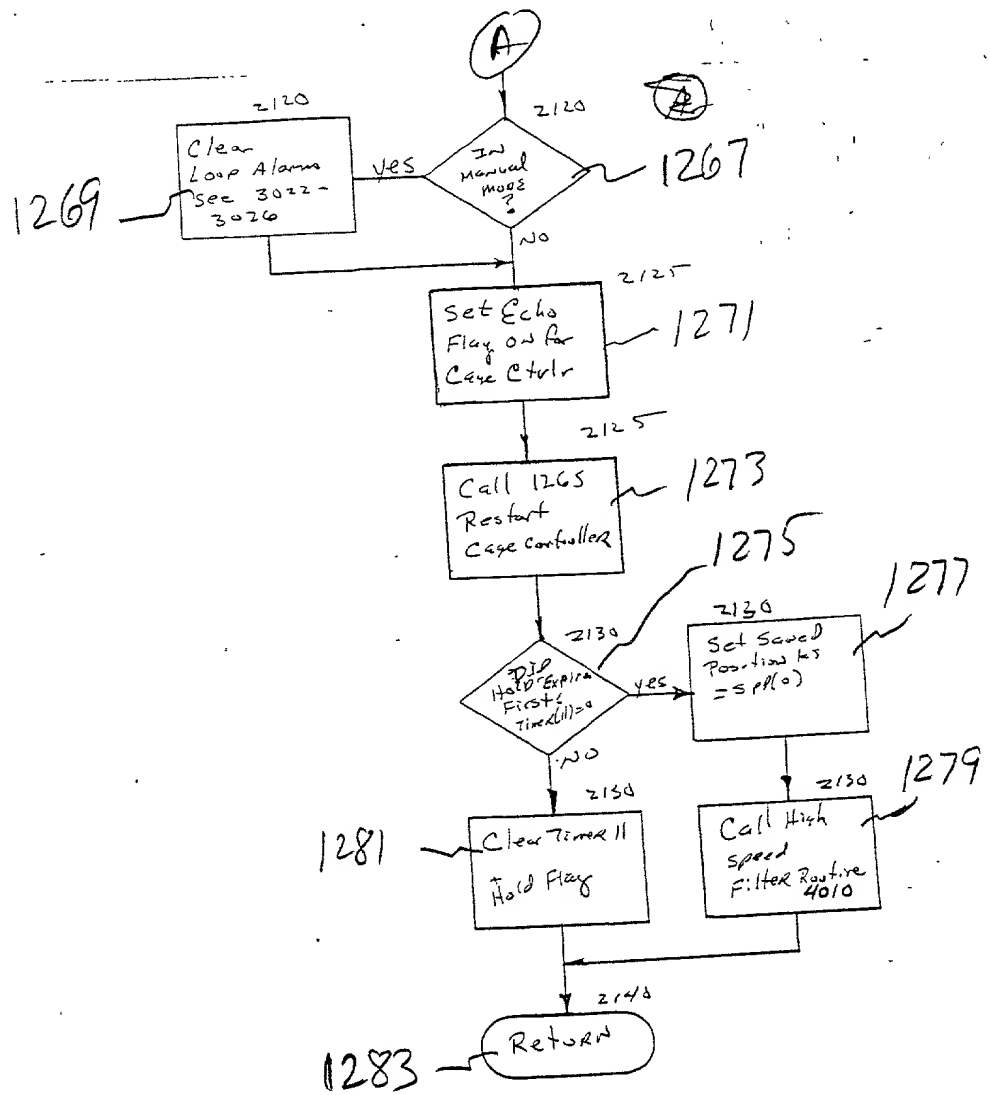


FIGURE 44R

09829084 081601

Called By
2120

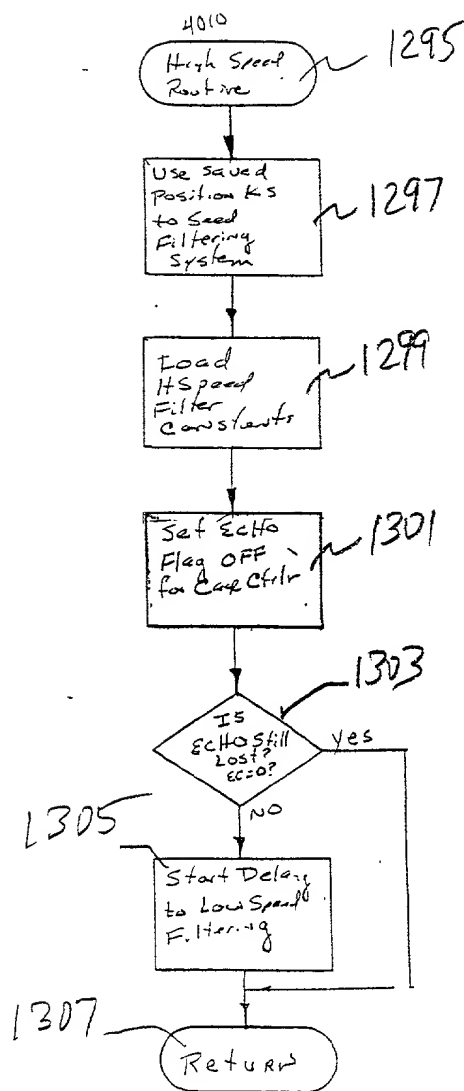


FIGURE 44 T

0925034-031501

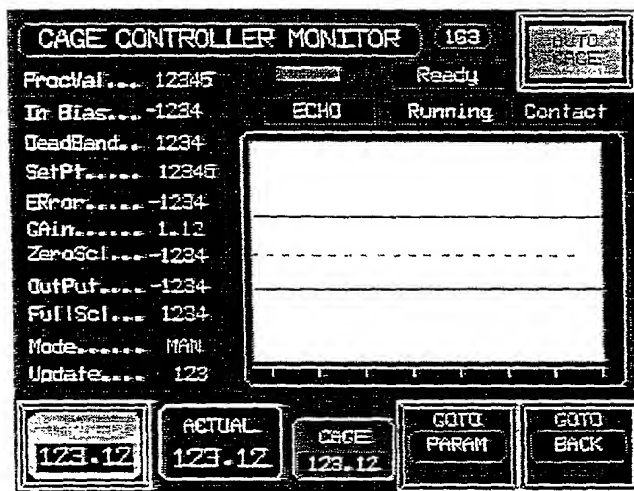


FIGURE 45

09829084 031601

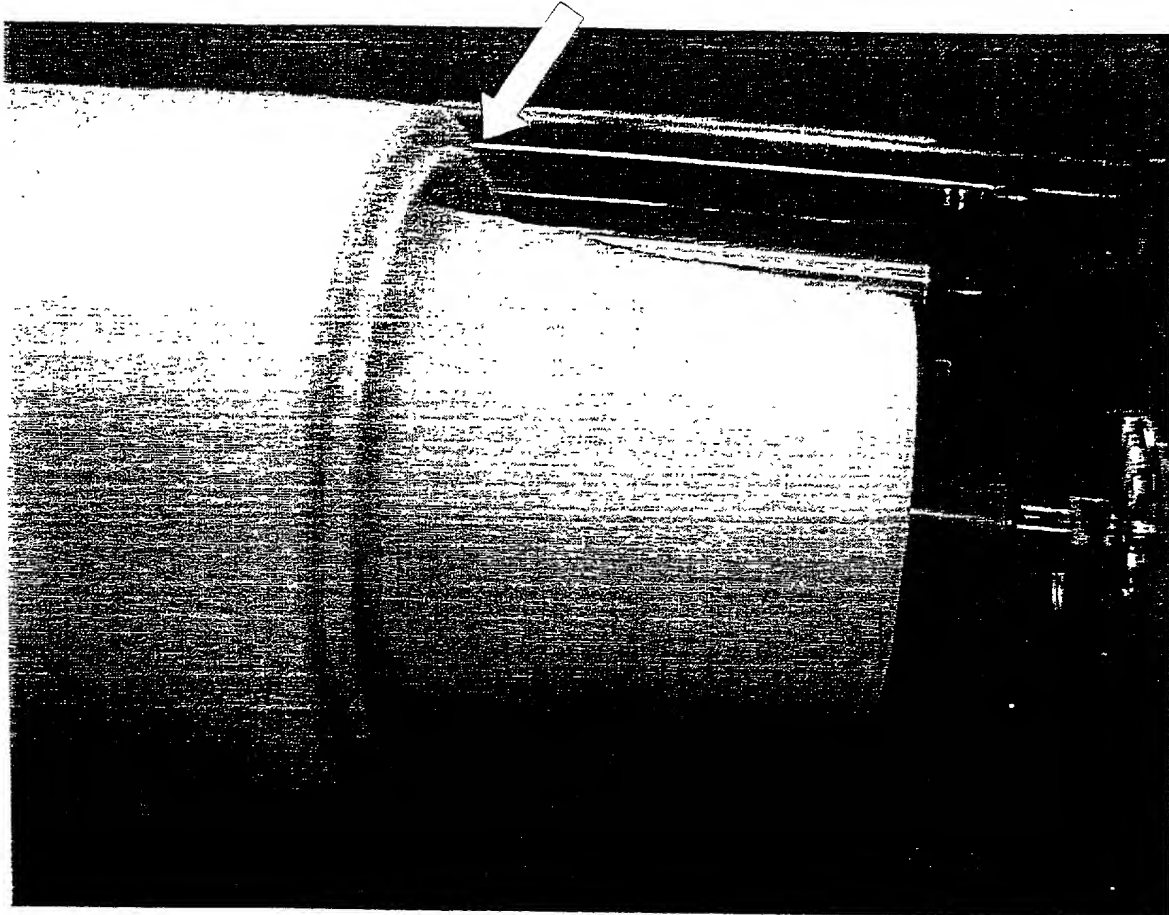


FIGURE 46

09829084 081601

CAGE CONTROLLER PARAMETERS			166	ACCEPT
40 MIN P 1.12	45 OVRLM 1.12	48-CCSIZE 123.12	READY	
41 UPDHT 12.12	46 CONCT 1.12			
42 ERROR 1.12	47 MAX P 1.12			
<p>CAGE CONTROLLER PARAMETERS: To get help on a parameter, press HELP and enter the number. Press ACCEPT to load new values.</p>			HELP	GOTO BACK

FIGURE 47

09825084 081601
"18062860"

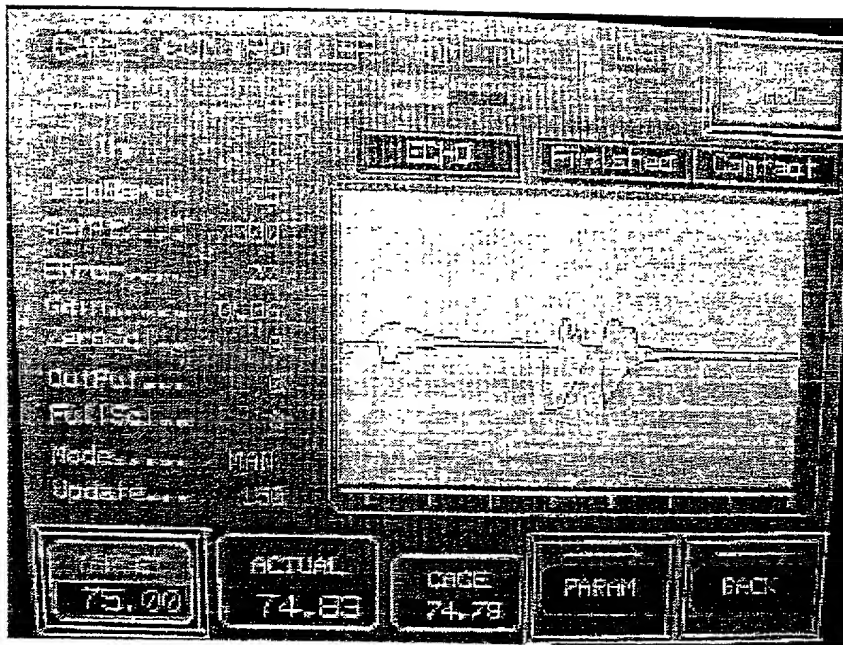


FIGURE 48

09825084-081601

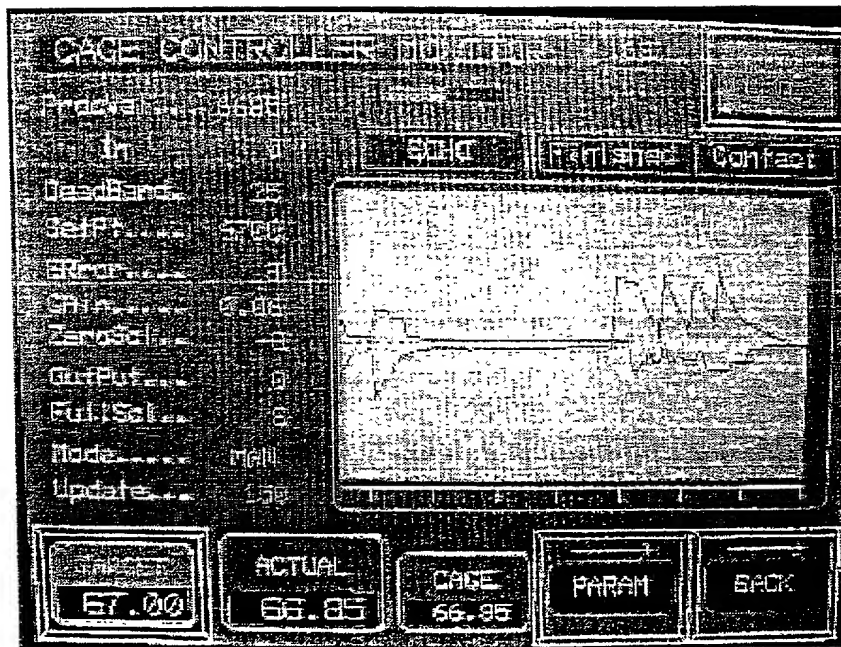


FIGURE 49

09829004-08101

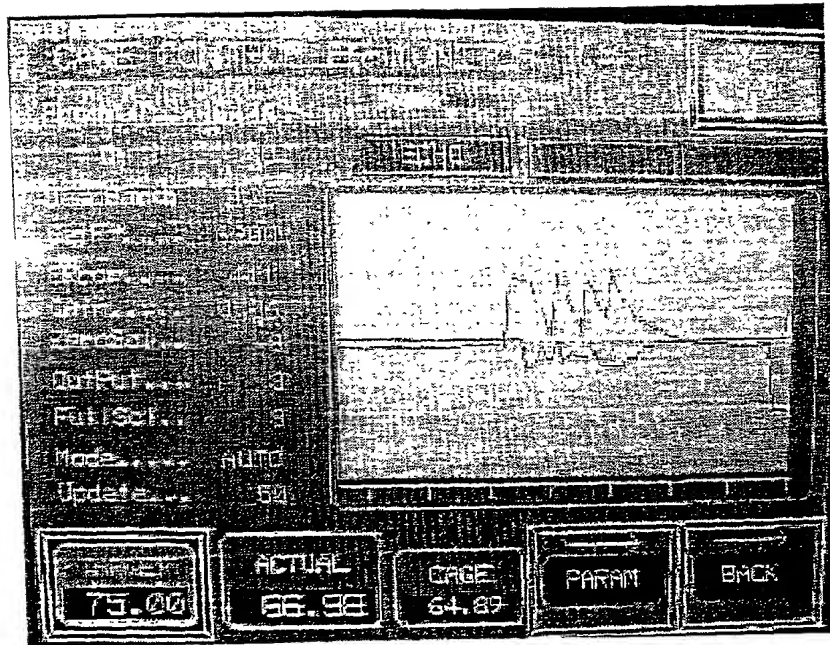


FIGURE 50

09829004 031601

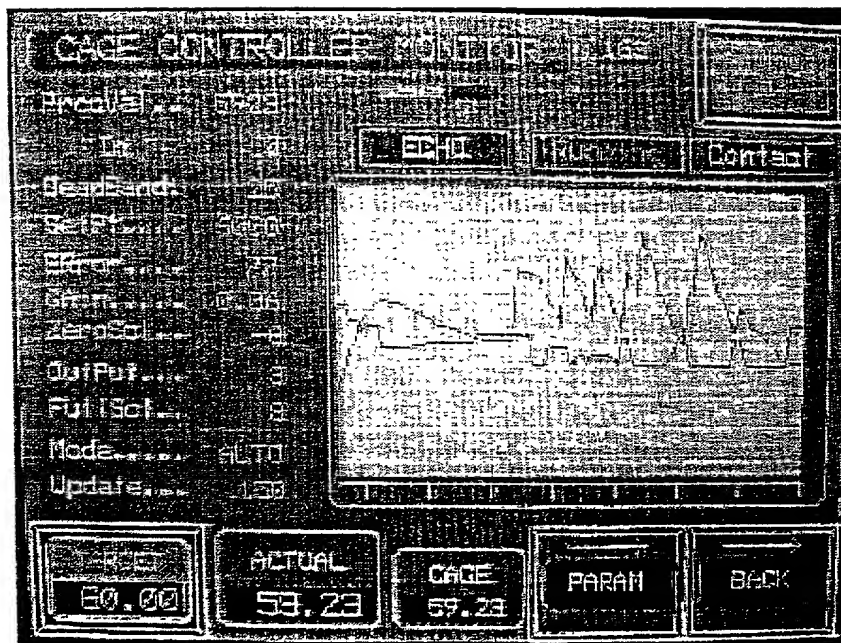


FIGURE 51

09829084 081501

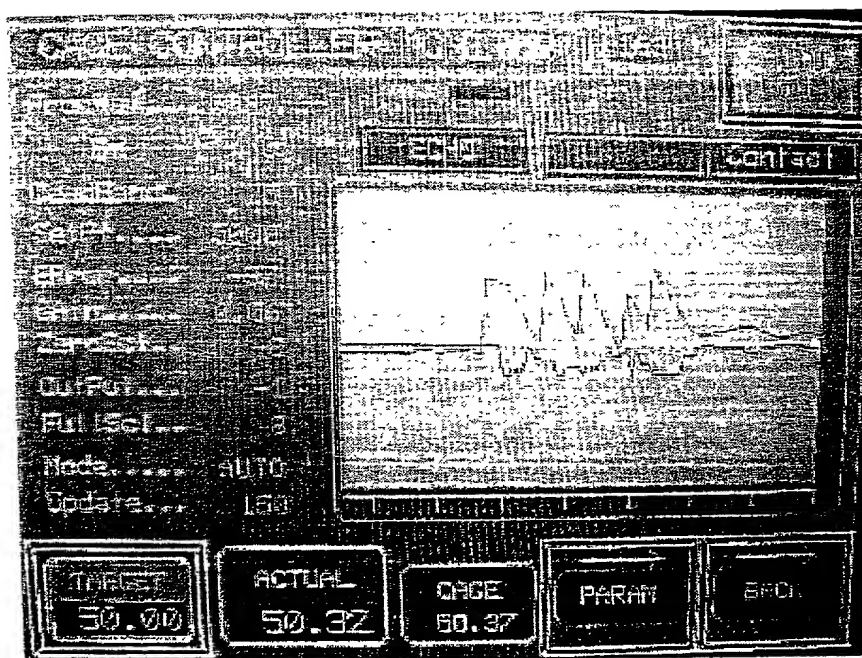


FIGURE 52

0925084 081601

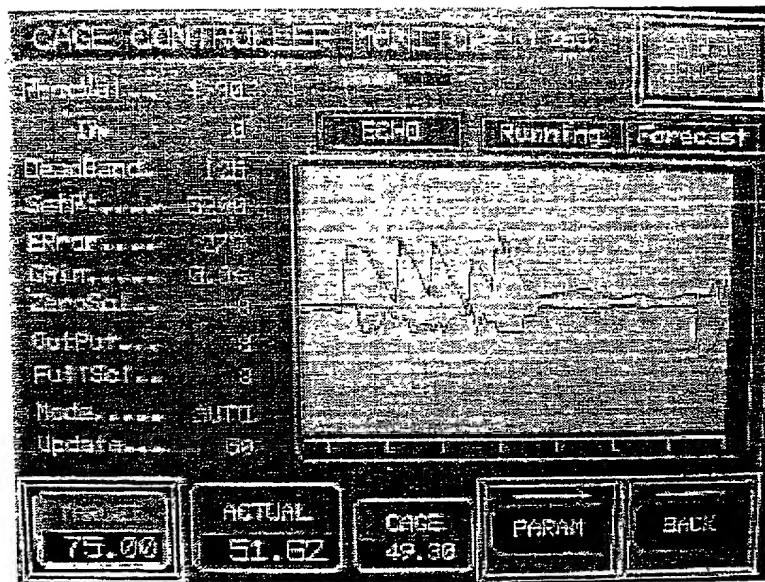


FIGURE 53